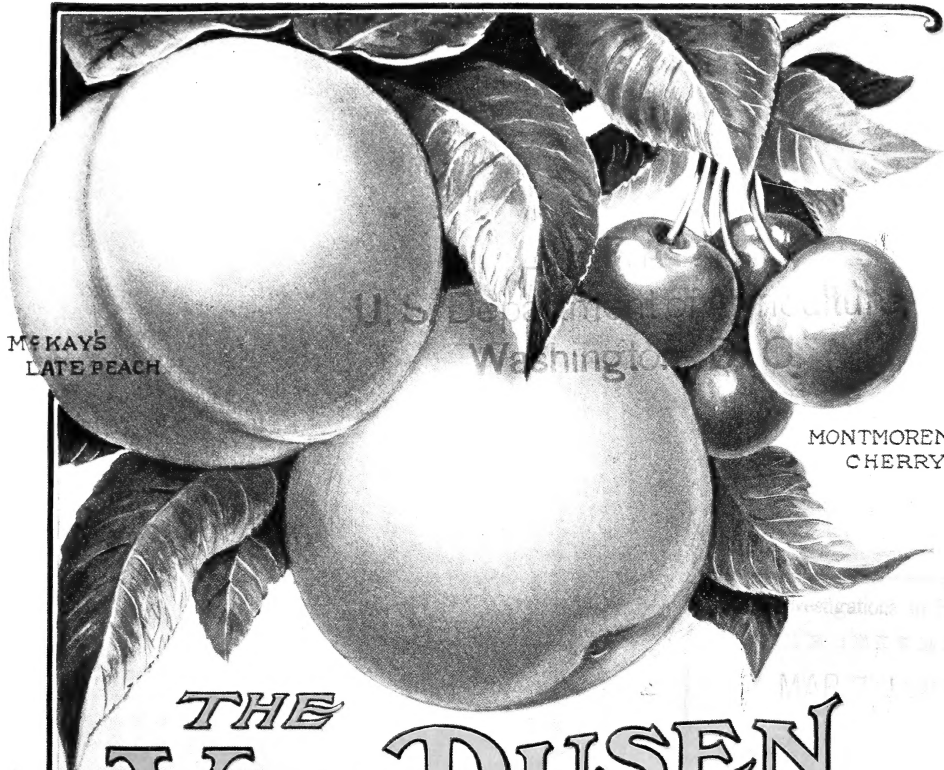


## **Historic, Archive Document**

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6261 1910




MCKAY'S  
LATE PEACH



MONTMORENCY  
CHERRY

*THE*  
**VAN DUSEN**  
**NURSERIES**  
*ESTABLISHED 1839*  
**W. L. MCKAY**  
*PROPRIETOR*  
**GENEVA, N.Y.**



HERBERT  
RASPBERRY

# WE ARE GROWERS OF NURSERY STOCK

## WE ARE GROWERS OF FRUIT

Many nurserymen grow more stock than we do—*VERY FEW* grow better.

And *STILL FEWER* come as near to growing all the stock shipped on their catalogue orders as do we.

**FREIGHT SHIPMENTS**—We will pay freight charges to **New York State points** on orders of ten dollars or over, cash accompanying order; other freight orders delivered properly packed, at the freight office in Geneva.

**EXPRESS SHIPMENTS**—Such shipments we deliver at express office in Geneva, properly packed, when our responsibility ceases. We strongly urge express shipments on all small orders, especially on all bales. Bales take the highest freight rate, and no matter how small, they are always billed at a minimum weight of 100 lbs. In many instances the cost of freight nearly or quite equals the expressage on the same package. Any order requiring boxing is all right by freight, but a bale exposed for an equal length of time may become dangerously dried out. **DON'T PAY GOOD MONEY FOR STOCK AND THEN RISK IT ALL TO SAVE A FEW CENTS IN EXPRESS CHARGES.**

**CASH WITH ORDER**—You will readily see that it is impossible for us to open hundreds of small accounts every spring, with the attendant labor and expense of bookkeeping; that we ask for **cash with order** is no reflection whatever on the credit of our customers, but a necessity to the success of a mail order business.

**FUMIGATION**—We take no chances on shipping stock infested with any insect pest; regardless of whether it is required or not we always fumigate all stock shipped by us and in using our stock you take no risk whatever.

**MANNER OF REMITTING**—Any way most convenient to yourself will be satisfactory, except do not send money in a letter without registering it. The safest way is by either postal or express order, New York draft or your own personal check.

**OUR GUARANTEE**—We guarantee our customers against wilful or intentional substitution or change of labels, and will exercise the greatest care to have every variety exactly what it purports to be, but beyond this we can assume no responsibility as to varieties. The very nature of the nursery and seed business, where one variety cannot usually be distinguished from another one which may be widely different, makes it impossible to safely give an absolute guarantee.

**SUBSTITUTING**—If we are out of a size ordered by you we will send the nearest possible in size, of the same variety; we will make **no substitutions in the variety**, however, **without your permission**.

We suggest, however, that if your order is a small assortment for home use, that you give us permission to substitute if necessary, as in all cases where we avail ourselves of this permission we make it a point to give better varieties if possible, than those ordered, and it also saves much correspondence. It is especially desirable in filling orders sent late in the Spring to have this permission, as we are then more apt to be out of some varieties. In making substitutions the variety is labelled true, and we do not send a low priced kind for one of our choicer varieties, even under a general permission to substitute.

**HEIGHT OF TREES**—We have never thought it necessary to define what we mean by the "height" of a tree, till this year, when it is suggested to us by illustrations in at least one other catalogue, that some nurserymen **INCLUDE THE ROOT** in this measurement! Let us make this very clear to our customers, in a very few words; in fruit trees, we measure height from the bud up; in trees not budded, such as ornamental trees, we measure from the ground up, before digging. The other method of measuring is at least misleading, and gives the tree a fictitious grade, making it appear fully one grade higher than it really is.

**PLANTS BY MAIL**—We are often asked to send small fruits, roses, shrubs, etc., by mail. We want to explain right here that the size we handle of this class of stock is far and away too big to think of sending by mail; fancy a Frau Karl rose bush, such as we have had this past year **seven feet in height, travelling by mail!** Our Cuthbert, Herbert, in fact all our berries, currants, roses, etc., are so large and heavy, that, with the packing they would require, it is out of the question to send them in this way; so with exception of Strawberries we decide not to cater to the trade that wants the mailing size plants.

**TESTIMONIALS**—Except a single letter concerning McKay's Late Peach, we omit all testimonials; so far as they might relate to our personal character, we assume as a matter of course that you consider us honest, without requiring us to submit proof; so far as they might relate to our stock, we will, if you desire, give you addresses of many parties who have bought from us, and you can correspond directly with them. Your information will then be first hand and far more unbiased in its presentation than if a letter on the same subject had been sent to us to edit and print.

**PREMIUMS**—We give this year three fine varieties of grape vines as a premium with

- 1st, all orders for nursery stock not containing any collection but amounting to \$2.00, except such as go by mail.
- 2d, all collections of extra size fruit trees, unless the premiums offered with the plum and apple collections are preferred.
- 3d, all dwarf apple collections.
- 4th, all small fruit collections, and 100 McKay's Giant Asparagus.

**FOR ALL GRAPE COLLECTIONS** a special premium of a fine rose bush.

All premiums are our selection of varieties except the special plum and apple premiums; that for the former being a fine, purple foliaged plum tree, and for the latter the wonderfully beautiful flowering tree, Bechtel's Double Flowering Crab. In lieu of these the grape premium may be selected if preferred. See page 19.

**FERTILIZER CHEMICALS**—Mix your own fertilizer—you can save at least 25% in their cost. See list page 32.

**LEAD ARSENATE**—So cheap you can't afford to use other insecticides on either potatoes or fruits. See page 31.

**LIME—SULPHUR SOLUTION**—Insecticide and fungicide; by the barrel Ready for immediate use. See page 31.

**COPPER SULPHATE**—By the barrel or pound. See page 31.

**FLOUR OF SULPHUR**—By the barrel only. See page 31.

**LIME**—Fresh burned lump lime, by the carload only. See page 31.

**SPECIAL BARGAIN LIST**—See inside back cover.



# ORDER BLANK

IT WILL BE A CONVENIENCE TO US TO HAVE ORDERS SENT ON THIS BLANK  
AS FAR AS POSSIBLE.

IN ORDERING, PLEASE NOTE THE FOLLOWING SUGGESTIONS:

**FREIGHT SHIPMENT** is best for all orders of sufficient size to require boxing.

**EXPRESS SHIPMENT** is best for orders small enough to be baled—taking everything into consideration, it is cheapest in the end. If in doubt, leave it to us to decide; we shall do this according to first, what will be best for the stock, and second, which will be cheaper for you.

**ADDRESSES:** Be sure to fill in both mail and shipping addresses, in full, as indicated in blanks below.

**SUBSTITUTIONS:** Be sure to give permission for substitutions if you are willing it should be done, especially in case of small orders or when only a few of a variety. All substitutions will be labelled true, but **NONE MADE WITHOUT YOUR PERMISSION.** No high-priced or special variety, like Herbert, will be substituted at all, even under a general permission.

**CHEMICALS:** In ordering fertilizer chemicals, you will find the list printed on back of this sheet the most convenient form possible, and in using it we think there is less danger of error on both your part and ours.

**NAMES:** We shall appreciate your giving us the names and addresses, on the back of this sheet, of such of your friends and acquaintances as you think would like to have this catalogue. We do not try to see how many catalogues we can distribute, but to how good a class of people we can send them; we rather have five or ten names of this class of people than scores selected on the "hit and miss" plan.

W. L. McKAY, Proprietor of the Van Dusen Nurseries, Geneva, N. Y.

Dear Sir :

Please send me at the proper time the coming season the goods indicated on this order sheet, by.....(Give manner of shipping). for which I enclose

\$.....in form of.....(Draft, P. O. Order, Etc.)

Date..... Signed.....

Name .....

Address .....

R. R. Station.....Express Office.....

County.....State.....

*Railroad*.....*Express Co.*.....

QUANTITY	VARIETIES WANTED	SIZE	AMOUNT	
			Dollars	Cents
	Total, Carried Forward.			



# FRUIT DEPARTMENT

## DWARF APPLES.

Varieties marked thus \* in the following lists of dwarf and standard apples, are recommended by the State Experiment Station in bulletin No. 275, as hardy in the extreme northern portion of the state or as at least worthy of trial. Among the very hardiest are **Duchess, McIntosh and Wealthy.**

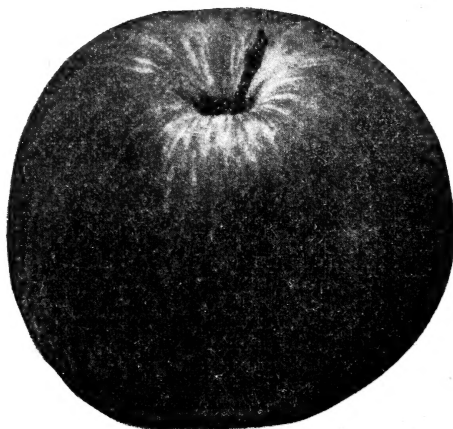
[The descriptions of all varieties of apples given here, slightly abbreviated, are taken from "Apples of New York" by Prof. S. A. Beach, former Horticulturist at the New York Experiment Station, now professor of Horticulture at the Iowa State College of Agriculture, Ames, Iowa, to whom acknowledgment is very gratefully made. W. L. M.]

### PRICES OF DWARF APPLES CUT IN TWO

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A recent count of our Dwarf Apples shows several thousand trees more than our estimate. We have therefore reduced our prices to about one-half last Fall's prices

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DWARF BALDWIN—Reduced.

### DWARF TRIO COLLECTION

---

- 1 Dwarf Baldwin
  - 1 Dwarf McIntosh
  - 1 Dwarf R. I. Greening
- 60c.
- 

Our Grape Premium free with every Dwarf Apple Collection. See page 19.

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[NOTE—The **DWARF APPLE** is creating more interest today than any other class of fruit. At the New England Fruit Show last fall at Horticultural Hall, Boston, where we made an exhibit, **more people came to me to ask about Dwarf Apples than about any other four classes of fruit put together;** and our small exhibit of just a few dwarf apple trees was a constant center of interest.

We make no claim for their superiority over standards as a "business" proposition—frankly, I do not believe in them at all for commercial plantings—but I do believe in dwarfs for an assortment of several fine varieties for family use, especially where the question of space must be considered. You may plant them 14 to 16 feet apart if you have the room; if not, plant them 12 or 10 feet apart if necessary, or even closer. They will bear very soon if well cared for, and will give good crops of fine fruit. You can spray them, thin them, pick them, standing right on the ground, for many years.

Another point of value is their fitness for purposes of experiment and exhibition. Without crowding you can grow from two to three hundred varieties on a single acre; this would make you a formidable competitor for the "largest and best" collection of apples at all important exhibitions.

Finally, don't plunge into dwarfs at any one's solicitation for a business orchard, but don't fail to grow an assortment for home use, and for the pleasure of having the handsome little trees about you. W. L. M.]

Dwarf apples are among the most costly to produce of all kinds of nursery stock, owing to the peculiarities of the roots—the Doucin dwarf stock—on which they are budded.

We ask you to remember that these are dwarf growing trees, so do not expect the size you would look for in a standard. Our dwarfs will all be good strong one year old trees, with quite a wide range of height according to the habit of growth of the several varieties. They should be cut back to about 1 foot in height when planted.

**We are growing only the varieties of dwarfs here listed---please do not order any others as we cannot furnish them.**

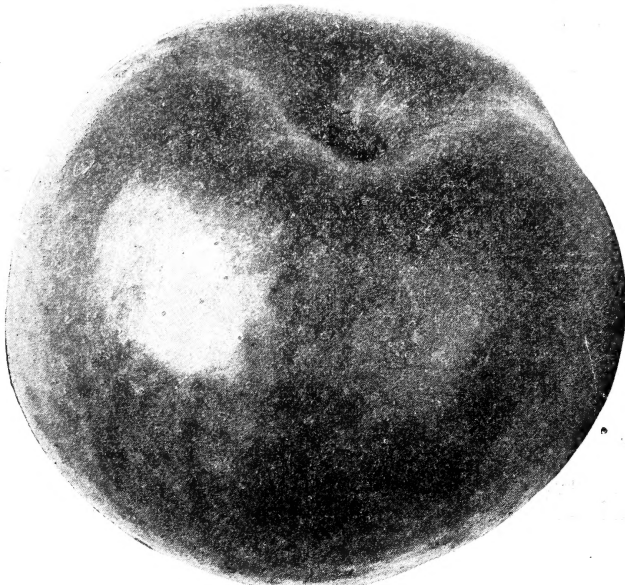
**Price, all varieties of Dwarf Apples, 25 cts. each, \$2.50 per doz.**

## EARLY VARIETIES

**\*DWARF RED ASTRACHAN** Medium size; pale yellow, often nearly or quite overspread with light and dark red, splashed and striped with deep carmine, with a heavy bluish bloom; flesh white, often tinged with red, rather fine, crisp, tender, juicy, sub-acid, aromatic, **good to very good.** Late July to September. 18 to 24 inches.

**\*DWARF YELLOW TRANSPARENT** Medium to above medium; pale waxy yellow, changing to an attractive, yellowish white; flesh white, moderately firm, fine grained, crisp, tender, juicy, sub-acid, pleasant but not high flavored, **good.** Late July and August. 18 to 24 inches.

## FALL VARIETIES



**McINTOSH RED**—Highest quality of any variety.

**\*DWARF DUCHESS OF OLDENBURG** Medium to large; pale yellow, almost covered with splashes and stripes of bright red, mottled with crimson; flesh tinged with yellow, rather firm, moderately fine, crisp, tender, juicy, sub-acid, aromatic, **good to very good for culinary purposes.** Late August and September. 18 to 24 inches.

**\*DWARF FAMEUSE** (Snow\*—Average below medium; bright red, deepening to purplish black, somewhat striped toward the apex, flesh white sometimes stained with red, very tender, juicy, sub-acid becoming mild, aromatic, **very good for dessert.** A very weak grower. October to mid-winter. 12 to 24 inches.

**DWARF KING** Large to very large; yellow, mottled or washed with orange red, often shading to deep red, striped and splashed with carmine; flesh yellowish, rather coarse, crisp, tender, aromatic, juicy, sub-acid, **very good to best.** October to January. This variety probably ranks fourth in quantity grown in New York state. 24 to 36 inches.

**\*DWARF McINTOSH** Above medium; clear whitish-yellow or greenish, washed and deeply blushed with bright red and striped with carmine, highly colored specimens becoming dark purplish red, overspread with a thin, lilac bloom; flesh white sometimes veined with red, firm, fine, crisp, tender, very juicy, agreeably aromatic, perfumed, sprightly sub-acid, becoming mild and nearly sweet when very ripe, **very good to best for dessert.** October to December or later. [NOTE—In our opinion this is the **highest quality of any apple grown** that we have ever eaten. It is rapidly pushing its way to the very front as a commercial variety. Fruit from our McIntosh orchard of 400 trees, partly in bearing, has always kept in common storage till after the holidays. W. L. M.] 24 to 36 inches.

**DWARF TWENTY OUNCE** Very large; greenish, becoming yellow, washed, mottled and splashed with bright red, or deepening to dark-red with carmine stripes; flesh whitish, somewhat tinged with yellow, coarse, moderately tender, juicy, sub-acid, **good for culinary uses, second-rate for dessert.** September to early winter. 18 to 24 inches.

**\*DWARF WEALTHY** Above medium to large with a tendency to smaller size as trees age; pale yellow or greenish, blushed and marked with narrow stripes and splashes of red, deepening to brilliant red, very attractive; flesh whitish, sometimes stained with red, moderately fine, crisp, tender, very juicy, agreeable sub-acid, somewhat aromatic, **good to very good.** October to January.—18 to 24 inches.

McDonough, N. Y.  
Feb. 15, 1910.

Mr. W. L. McKay,  
Geneva, N. Y.

Dear Sir:

Kindly send me prices of fertilizer chemicals. I am very much pleased with fertilizer bought of you last year.

Very truly yours,

C. J. DILLENBECK.

## WINTER VARIETIES.

### DWARF BALDWIN

Sometimes large to very large; skin light yellow, blushed or mottled with bright red, striped with carmine; flesh yellowish, firm, moderately coarse, crisp, rather tender, juicy, agreeable sub-acid, somewhat aromatic, **good to very good.** November to March or April. This is the leading variety commercially in New York, New England, Southern Canada, Michigan and Ohio. **More Baldwins are produced in New York state than all other varieties put together.** Further comment on its value as a commercial variety is unnecessary. 24 to 36 inches.

### DWARF HENDRICK SWEET

(Sweet Winesap)—Medium to large; bright green becoming yellow with reddish spots or with a well developed, brownish-red blush; flesh whitish with yellow tinge, firm, tender, moderately juicy, very sweet, good to very good. December to April or May. 18 to 24 inches.

### DWARF NORTHERN SPY

Large to very large; the clear pale yellow ground color is nearly concealed with bright pinkish-red, mottled and splashed with carmine and overspread with a delicate bloom; flesh yellowish, rather firm, moderately fine grained, very tender, crisp, very juicy, aromatic, sub-acid, **very good to best.** November to nearly the close of the season. This variety ranks third in the state in the quantity produced. 18 to 24 inches.

### DWARF RHODE ISLAND GREENING

Above medium to large; green varying to yellow, sometimes with brownish red blush, which rarely deepens to a bright red; flesh yellowish, firm, moderately fine grained, crisp, tender, juicy, rich, sprightly sub-acid, peculiarly flavored, **very good in quality.** October to March or April. [NOTE—This apple ranks next to Baldwin in amount produced in the state, the best estimates crediting to Baldwin and Greening together over two-thirds

of the commercial apple crop of New York. It is a great cropper and with just ordinary good care will outyield any other of the standard varieties in the quantity of No. 1 fruit it will give. It stands **best of all varieties as a cooking apple, and as a dessert apple, it also ranks very high.** This is one of the varieties we are now planting on the old "Van Dusen" farm. W. L. M.] 24 to 36 inches.

### DWARF ROX- BURY RUSSET

Above medium, variable in shape; skin somewhat tough, usually covered with greenish to yellowish-brown russet; flesh tinged with yellow or greenish, firm, somewhat coarse, moderately tender, juicy, sub-acid, **good to very good.** December to May. 18 to 24 inches.

### DWARF SEEK- NO-FURTHER

Above medium; deep yellow or greenish shaded and splashed with rather dull red, in highly colored specimens overspread with bright, pinkish red, striped with deep carmine. Flesh tinged with yellow, firm, a little coarse, crisp, tender, juicy, mild, sub-acid, rich, aromatic, **very good to best.** November to February. 18 to 24 inches.

### DWARF SPITZENBURG

Below medium to large; deep rich yellow often almost completely covered with bright red striped with darker red, in the sun deepening to a very dark, purplish blush; flesh tinged with yellow, firm, moderately fine, crisp, rather tender, juicy, aromatic, sprightly sub-acid, **very good to best.** November to February and later. 18 to 24 inches.

### DWARF SUT- TON'S BEAUTY

Medium size; attractive bright red striped with carmine, nearly overspreading the lively yellow or greenish ground color; flesh tinged with yellow, rather firm, moderately fine grained, crisp, tender, juicy, mild sub-acid, **good to very good.** November to March. 12 to 18 inches.

#### Superb Dwarf Apple Collection

Seven varieties shown on back cover.

1 Dwarf McIntosh Red

1 Dwarf Duchess      1 Dwarf Greening  
1 Dwarf King        1 Dwarf Baldwin  
1 Dwarf Spy        1 Dwarf Wealthy  
AND 3 Grape Vines, for \$1.25.

#### SWEEPSTAKES COLLECTION OF DWARF APPLES.

One each of our sixteen varieties including  
the Grape Premium

ONLY \$2.50.

## PEACHES.

OF ALL LINES OF NURSERY STOCK, OUR SPECIALTY IS GROWING PEACH TREES.

In the last two issues of our catalogue we have given an unqualified guarantee that our peach trees are true to name. We shall modify our guarantee this year, not because any question has been raised against them but for the reasons here given.

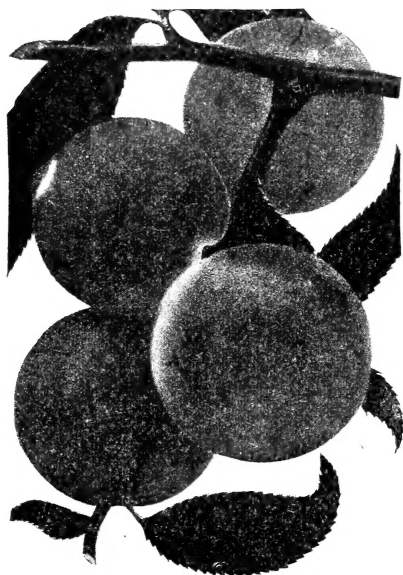
From the very nature of the nursery and seed business, a mixture of varieties, particularly of peach trees, is impossible to detect and correct; it is equally impossible that the head of the business can perform the actual labor of filling orders; every process in the life of the tree from the time of budding till it is in the package ready for shipment, **must be done by the man who works by the day—the laborer.** Still, the head of the business is responsible for the result, which cannot be known for several years. Without the slightest intentional dishonesty on his part he may incur financial ruin through the careless act of a man in his employ years before.

Three years prior to the budding of our present stock of peach trees, in order to correct any possible mistakes or mixtures, we procured buds from tested, bearing trees of our own, also from the orchards of B. J. Chase of Sodus, N. Y., S. D. Willard and G. F. Forden, of Geneva, and from the State Experiment Station, a courtesy that the Station always extends to any desiring buds or scions of varieties not under restriction.

Our present stock of peach trees is derived from these buds except as follows: Our Late Crawford, Mountain Rose and Niagara are not derived so recently from bearing trees, but they are our own growing and have all the indications of being free from mixture. Our Smock, Old Mixon and Globe are not grown by us, as is also the case with a very few of our Foster and Salway.

We make this guaranty; that the trees we ship, unless otherwise arranged, shall be from the particular trees that we have described; we guarantee also against wilful substitutions; beyond that we give only the usual guaranty to refund the purchase price or replace, in case any stock proves not true to the variety purchased.

### THREE GREAT PEACHES—Lamont, McKay's Late, Willett.



LAMONT PEACH

#### LAMONT

A large, new peach, fast taking its place in the commercial list. The description of Early Crawford is a description of this variety, except that the **Lamont is freer from injury in the bud, from specking in the fruit, and in every way more resistant to similar faults.** Its heavy week follows the heavy week of Elberta. It is not so productive as Elberta or McKay's, but considering its other strong points it is sufficiently productive to entitle it to a place among the first rate commercial varieties of the Crawford type.

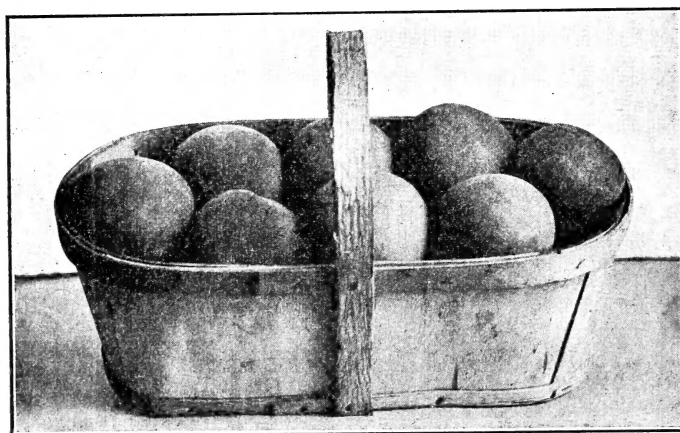
Extra, 4-6 ft .....	30c	\$3.00	\$20.00
Regular, 3-4 ft .....	20c	2.00	15.00
Medium, 2½-3½ ft .....	15c	1.50	10.00

#### WILLETT

The history of this Crawford type peach given in full last year from the "Year Book" of the U. S. Department of Agriculture for 1902, reads like a romance. We cannot give space here to repeat it.

Among all yellow fleshed peaches **without exception**, this variety, in respect to flavor and quality, stands with McIntosh among apples, Seckel among pears, and Delaware among grapes.

Its season following Lamont, its great size, unusual beauty and its exceptionally high quality, all unite to make it probably the **choicest peach introduced during the last generation.**



McKAY'S LATE PEACH

In quality it far surpasses the Salway, and is as juicy as the early Crawford. It is a yellow peach with more or less blush in the sun, medium to above medium in size. The past season it was picked perfectly green October 16th, carried about ten days and ripened up without loss of quality. Its great points of excellence are its extreme juiciness and fine quality for so late a variety. [We have about 160 trees of it planted three years ago, and hope to be able to confirm our belief that it will develop into a valuable commercial variety. W. L. M.]

	EACH	PER DOZ.
Extra, 4-6 ft .....	50c	\$5.00
Regular, 3-4 ft .....	40c	4.00
Medium, 2½-3½ ft .....	30c	3.00

	EACH	PR. DZ.	PR. 100
Extra, 4-6 ft. 40c	\$4.00	\$25.00	
Reg., 3-4 ft. 30c	3.00	20.00	

**WILLETT COLLECTION**  
—I each of LAMONT,  
McKAY'S LATE and WIL-  
LETT. Extra size, \$1.00,  
Regular size, 75c. [See  
Grape Premium, page 19].

**McKAY'S LATE** A seedling originating on the Van Dusen farm, about 15 years ago. It is of the Salway type of peach in appearance and season, varying from October 10th to about the 25th. The fruit from which the cut is taken was picked Oct. 15th, and the last picking that year was the 23d. It is a good producer, quite as hardy in the bud as Hill's Chili.

## PRICES OF PEACH TREES.

Except Lamont, McKay's Late and Willett.

	Each	Per Doz	Per 100
Extra size, 4-6 ft .....	20c	\$2.00	\$12.00
Regular size, 3-4 ft .....	15c	1.50	9.00
Medium size, 2½-3½ ft .....		1.00	6.00

Height measured from the  
bud up; roots not included  
in measurement.

**ALEXANDER** Medium size; deep maroon on greenish yellow ground, shaded and splashed with carmine, clingstone, good quality, extremely early. Middle to last of July.

**CARMAN** Large, resembling Elberta in shape; pale yellow overspread with a deep blush; flesh tender, very juicy, fine flavor. A new variety which is rapidly gaining popularity. August.

**CHAMPION** Very early and very good. Creamy white, with red cheek, freestone. First of August. The tree of this variety is a very strong grower, and the fact that it is so early and a perfect freestone makes it very desirable.

**CRAWFORD'S EARLY** It seems unnecessary to describe this fine old variety. Its large size, fine rich yellow color with red cheek and the high quality of its rich yellow flesh, have made it the basis for a comparison in excellence of all varieties which conform more or less to its chief characteristics. The Crawford "type" of peach is so well recognized in the market, that those peaches which come later and are of this general type of peach, have succeeded best as commercial varieties. Two striking instances of this occur in the Willett and Lamont. First of September.

**CRAWFORD'S LATE** Large, yellow with red cheek; flesh yellow, quality high for so late a variety. Last of September.

**CROSBY** Medium size; yellow, splashed with crimson; flesh yellow, juicy, good quality. One of the very hardiest varieties. Middle of September.

**ELBERTA** Large to very large; fruit somewhat elongated, flattish; flesh yellow, firm, not very juicy nor of high quality, but without doubt is the most popular market variety of today, on account of its great productiveness, uniformly large size, handsome appearance and remarkable shipping qualities. It follows immediately after Early Crawford.

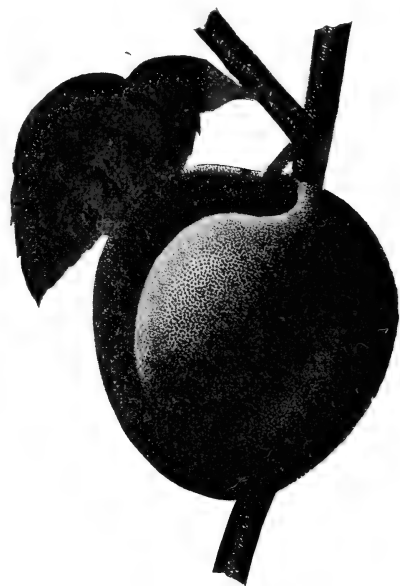
**FITZGERALD** A new, medium to large size, round peach, same season as Early Crawford, originating as a chance seedling in Canada. Yellowish green with a decided cheek, yellow flesh, and fine quality. It is hardy and very productive, and has sprung into favor very rapidly.

**FOSTER** A large, yellow peach with red cheek, quite similar to Early Crawford, only larger.

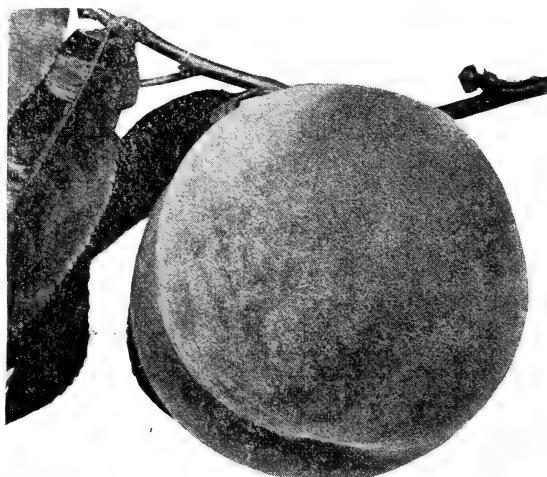
**GLOBE** Fruit large, golden yellow with red blush; flesh firm, yellow, juicy, very good. September.

**GREENSBORO** Claimed to be the largest of the very early varieties. Fine color, rich white flesh, as early as Alexander and freestone when fully ripe.

**HILL'S CHILI** Medium size; dull yellow with more or less red cheek, skin very thick and tough with very heavy down, flesh yellow, not very juicy, exceedingly rich, very firm, stands handling and shipping well. Its quality when canned is of the very highest.



ELBERTA PEACH



CHAMPION PEACH

Early October. [Note—Its extreme hardiness in the bud has given us crops of this variety when most other varieties have been winter-killed. In our opinion it is nearly or quite as hardy as Crosby. The tree is very long-lived. We have over 1800 of this variety planted, partly in bearing, and for this region which is almost too cold for peaches, it is very profitable. W. L. M.]





NIAGARA PEACH

**EMPIRE PEACH COLLECTION—Extra size only, \$1.50**

Twelve peach trees, our selection of varieties, from earliest to latest. To include WILLETT and LAMONT till those varieties are sold out.

**REMEMBER**—The premium of three grape vines goes with this collection.

**REMEMBER**--When you buy our trees the root is not included in the height. **WE THROW THAT IN FOR GOOD MEASURE!**

## STANDARD PEARS.

Pears require a strong soil for the best development of tree and fruit. A rich loam topsoil with strong clay subsoil is for the great majority of varieties the ideal soil. Of course the land must not be wet.

Never plant closer than 16 ft. in commercial orchards, and 18 is better. In garden or lawn of course much closer planting is allowable.

**JUST LOOK AT THIS !**

\$15.00 per 100 while they last.

Or, even \$20.00 for trees for 1 acre set 16 by 16 feet apart.

Fine, perfect trees about 3 to 4 feet.

Order quick--they'll go fast.

Only the quantity in following list.

650 BARTLETT	60 BEURRE d'ANJOU
225 CLAPP'S FAVORITE	
84 FLEMISH BEAUTY	30 KIEFFER
150 SECKEL	29 SHELDON

**MOUNTAIN ROSE**

A large, early freestone peach, yellow nearly covered with a rich crimson; flesh white and excellent quality. Follows Alexander and Greensboro, a week or ten days before Early Crawford. This is a very old variety which for the last ten years has been regaining its popularity, the call for it having increased wonderfully during that time.

**NIAGARA**

A large, new peach, native of Western N. Y., said to be of fine quality and great bearer. Judging by the demand for the trees no new variety has been so quickly taken up by peach growers. It is among the first four or five varieties called for.

**SALWAY**

Medium to large; yellow with rather dull red cheek; flesh deep yellow, rich in quality but rather dry like most late peaches. Extremely valuable commercially, being a good keeper and shipper. October.

**STEVEN'S RARERIPE**

Medium size, high color, very productive, good quality. First of October.

**STUMP**

Very large; creamy white, with bright red cheek; flesh white, juicy and good. Last of September.

**TRIUMPH**

Fair size; yellow with red cheek. A late bloomer, escaping late frosts. Ripens with Alexander.

**WHEATLAND**

Very large; of the Crawford type in appearance and character. Middle of September.

Sodus, N. Y., March 24, 1909

W. L. McKay,  
Geneva, N. Y.

Dear Sir:—

Would say with regard to the McKay's Late Peach (you gave me five trees several years ago) it is the best flavored late peach I ever ate, and is a good bearer.

Every peach grower should try them at least for his own use.

Yours truly,

FRANK J. SERGEANT,

[NOTE.—Above was received entirely unsolicited, with Mr. Sergeant's fourth or fifth order during as many years. I had even forgotten that I had sent them to him.  
W. L. McKay.]



**PRICES, except BEURRE BOSCH**

	Each	Per Doz.	Per 100.
Extra size, 5-7 ft .....	35c	\$3.50	\$25.00
Regular size, 4-6 ft .....	25c	2.50	20.00

**EARLY VARIETIES—Prior to October.**

**BARTLETT** Stands in the same relation commercially among other pears, as Baldwin does among apples. Large size; rich yellow when ripe, with a beautiful blush cheek; highly flavored, juicy, buttery, very vigorous, bears very abundantly at a comparatively early age, and is an annual bearer. August and September. [NOTE—The Bartlett is preferred by the canners to any other variety, so that no matter how large the crop, Bartlett always sells at a fair price at least, even when other varieties go begging. The crop of Bartlett from the Van Dusen orchards is one of the sure things that we "bank" on every year, and are very seldom disappointed. There is no variety that is safer today to plant on a commercial scale than Bartlett pears. W. L. M.]

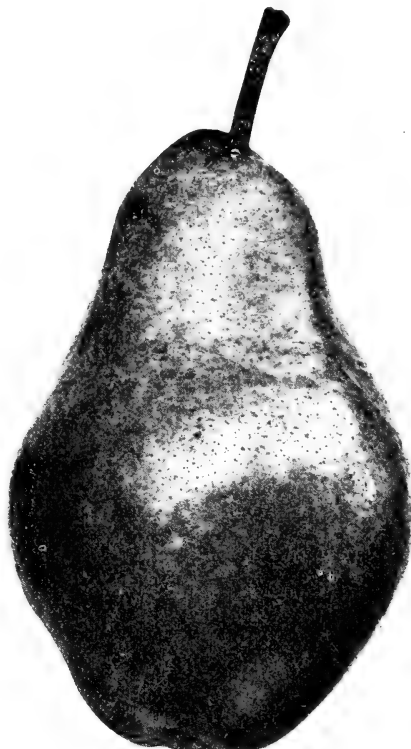
**CLAPP'S FAVORITE**

August.

Very large; pale yellow, blushed with red; very high, rich quality. Should be gathered very early.

**FLEMISH BEAUTY**

Tree hardy, vigorous and productive; fruit large, roundish, very subject to scab if not sprayed; pale yellow, mostly covered with russet patches, with a reddish brown cheek; slightly coarse, but a very fine, high quality pear. September. [NOTE—This grand old variety is not desirable for a market variety, but should be in every home garden. It is a splendid variety on which to "work" poor growers like Bosc. W. L. M.]

**BARTLETT PEAR.****WORDEN-SECKEL**

Seedling of Seckel, by S. Worden, originator of the Worden grape.

Fruit medium in size, larger than its parent; pale yellow, overspread with red on the sunny side; flesh white, melting, not as rich and vinous as Seckel, but finer grained, very good. September. [NOTE—A very poor grower; if necessary we reserve the privilege of grading as in Seckel. W. L. M.]

**WILDER**

Fruit small to medium; pale yellow with faint blush; moderately juicy, rather coarse, mild sub-acid. Last of July.

**LATE VARIETIES.**

October and later

**KIEFFER**

Tree very vigorous and an early, heavy and regular bearer; fruit medium to large; yellow, blushed with red on the sunny side; flesh coarse, juicy, of very medium quality, but excellent when canned or cooked. October. [NOTE—A leading commercial variety, probably next in importance in this state, to the Bartlett. Contrary to most varieties it is best to leave this on the tree just as long as it is safe on account of the fall winds, as it gains in size, color and beauty very rapidly toward the end of its season. W. L. M.]

**HOME COLLECTION**

Extra size, \$1.50; Regular size, \$1.00

1 Bartlett	1 Kieffer
1 Clapp	1 Seckel
1 Flemish	1 Sheldon

**KIEFFER PEAR.**

**BEURRE BOSC** Large; dark yellow, largely covered with cinnamon russet and sometimes tinged with red; flesh white, buttery, melting, rich, sweet, aromatic and delicious, best. October. [NOTE—A very poor grower in the nursery, but makes one of the largest strongest growths, in the orchard. We reserve privilege of filling orders with top-worked trees if necessary. W. L. M.]  
**PRICE, Extra size, 50c each, \$5.00 per doz. Regular size, 35c each, \$3.50 per doz.**

**BEURRE D'ANJOU** Large; greenish yellow, sometimes faintly blushed; flesh slightly coarse, juicy, aromatic, very good. October and November.

**DUCHESSE D'ANGOULEME** Large with uneven surface; greenish yellow, often streaked and spotted with russet; very juicy, sweet, very good. October.

**LAWRENCE** Medium size, very productive; greenish yellow, often marked with russet; very good. Early winter.

**SECKEL** Our most highly flavored pear, the standard of excellence. Fruit small, yellowish brown, with a russet-red cheek; flesh very juicy, melting, aromatic, with a rich, spicy flavor; quality, very best. September and October. [NOTE—The Seckel has often been incorrectly called a poor grower in the nursery; it is a *short* grower, especially for the first two years, but even from the first is of a very sturdy, straight, upright habit, making a handsome, symmetrical growth. Seckel probably ranks third in commercial importance in the State. On account of its shorter growth as a



SECKEL PEAR.

CHERRIES

A rather loose, dry, gravelly soil is best for cherries, although it is a fruit that seems generally over the state, to do "pretty well," no matter what its location, only so the soil is dry.

**SWEET VARIETIES.**—Plant 20 to 22 ft. apart.

PRICES.

	Each.	Per Doz.	Per 100.
Extra size, 5-7 ft . . . . .	35c	\$3.50	\$25.00
Regular size, 4-6 ft . . . . .	25c	2.50	20.00

**YELLOW SPANISH** Large, heart shaped, amber yellow with a bright red blush; meaty, sweet, very rich, rather more juicy than Napoleon and distinctly higher quality, and at the same time nearly as firm and a good shipper. Like Napoleon, if sprayed to control rot will hang a long time on the tree. Early July. [NOTE—With opportunity the past season to try this cherry side by side with Napoleon and several other varieties, I am forced to recede from my former recommendation of Napoleon as being the best sweet cherry for home use. Tested with several of the leading sweet cherries, the Yellow Spanish impressed me as being distinctly the superior of all in quality. While it is also an excellent market variety, we would hardly place it as quite equal to the Napoleon as a shipper. W. L. M.]

young tree we reserve the privilege of grading it about a foot under Bartlett in all sizes. W. L. M.

**SHELDON** Tree vigorous, hardy, productive; medium to large size, roundish, apple shaped; greenish, changing to a yellowish russet when fully ripe. Flesh whitish, very juicy, melting, rich, very high quality. October. [NOTE—This is a variety that we regard of the very highest quality. While not extremely late we have kept this in storage for several years and enjoyed them all during the month of January. If picked early and stored, they retain their high quality, so far as we can notice, to absolute perfection. After moving them from storage we can keep them in ordinary, cool storage, for a month or six weeks longer. If you try it you will place it in the same list as Seckel and Bosc as a "top notcher." W. L. M.]

**VERMONT BEAUTY** Below medium in size; greenish yellow, blushed and specked with red on the sunny side; of fine quality. Early October.

DWARF PEARS

May be set much closer than standards, but would not advise closer than 14 ft. They are adapted mainly to garden planting, not comparing with standards in most sections for commercial planting.

Each.	Per Doz.
Extra size, 3-4 ft. . . . .	30c \$3.00
Medium size, 2-3 ft . . . . .	20c 2.00
Bartlett, Clapp's, Duchess, Flemish Beauty and Seckel are most highly recommended.	



YELLOW SPANISH CHERRY.

**GOVERNOR  
WOOD**

A medium sized, amber colored cherry, with red cheek, a tender, sweet and delicious variety suitable only for home use. First of July.

**NAPOLEON  
BIGARREAU**

Probably the best light colored, commercial variety. Fruit very large, heart shaped; skin whitish yellow, changing when fully ripe to a rich yellow with a brilliant red cheek, sometimes covering nearly the entire cherry. Flesh very firm, sweet and meaty, very good, ranking however, in quality, below the Yellow Spanish whose season it overlaps, being a little later. Is at its perfection about July 8th to 12th.

**ROCKPORT  
BIGARREAU**

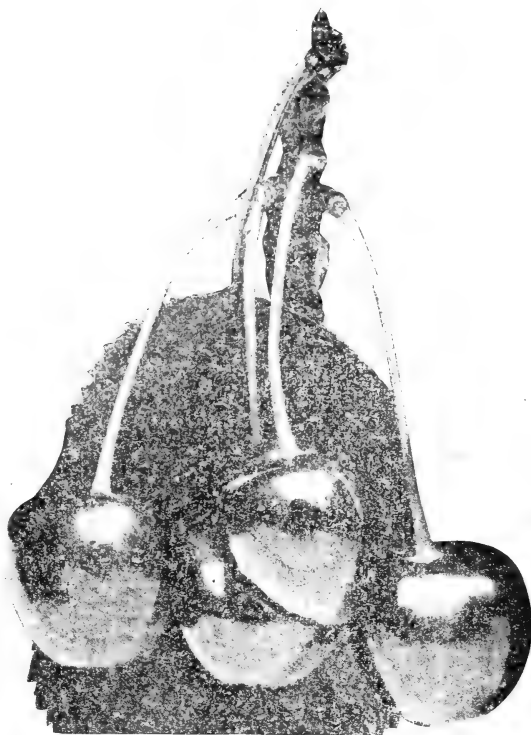
Fruit large, heart shaped, amber yellow with bright red cheek. A tender, juicy, fine flavored variety for home use, but too tender for shipping. First of July.

**BLACK  
TARTARIAN**

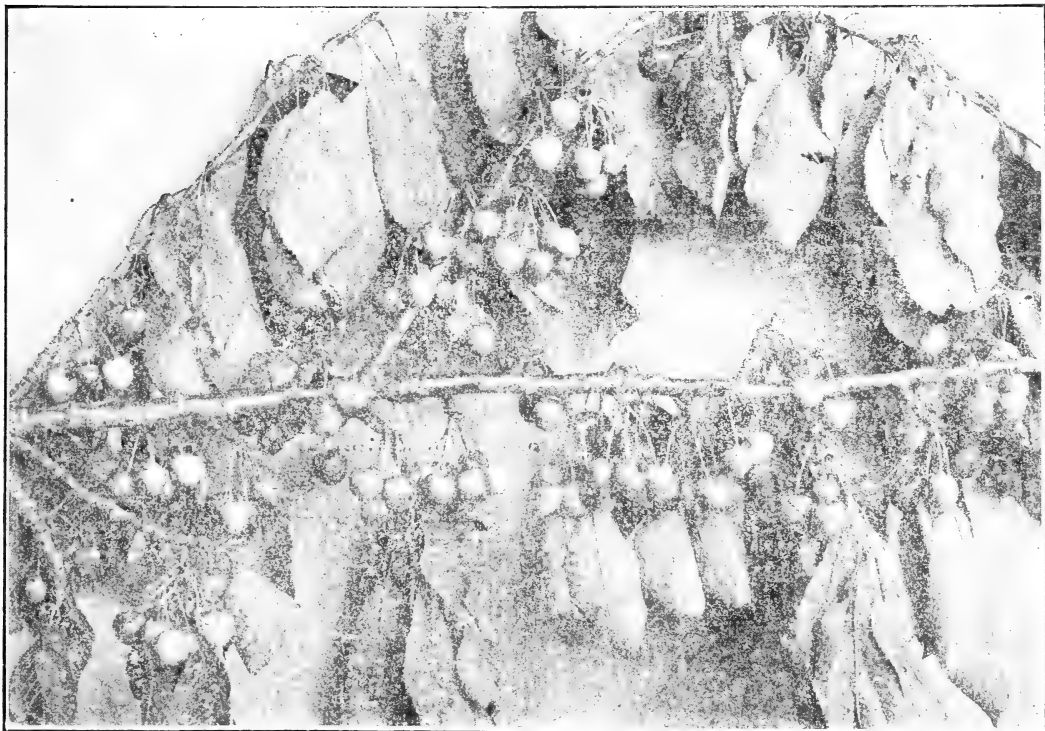
Fruit large, heart shaped, purplish black; quite juicy, very tender and of fine flavor and quality. Not so firm as Windsor, but decidedly higher in quality. If only one black cherry is wanted for home use, this is probably the best. June, early July.

**WINDSOR**

Medium to large, nearly or quite black when fully ripe; flesh somewhat juicy, tender, meaty and very firm, making it a good shipper and valuable commercial variety. In both quality and size is the inferior of Tartarian, but withal is a fine cherry and adds greatly to the length of the season. Middle to last of July.



BLACK TARTARIAN.



NAPOLEON BIGARREAU CHERRY.



## PLUMS.

Plant 16 to 18 feet apart each way. The plum is a heavy feeder, and will stand plenty of fertilizing. It does best on our rich deep loams, with clay sub-soil.

### JAPAN VARIETIES.

#### PRICES.

	Each	Per Doz.	Per 100
Extra size, 5-7 ft . . . . .	35c	\$3.50	\$25.00
Regular size, 4-6 ft. . . . .	30c	3.00	20.00

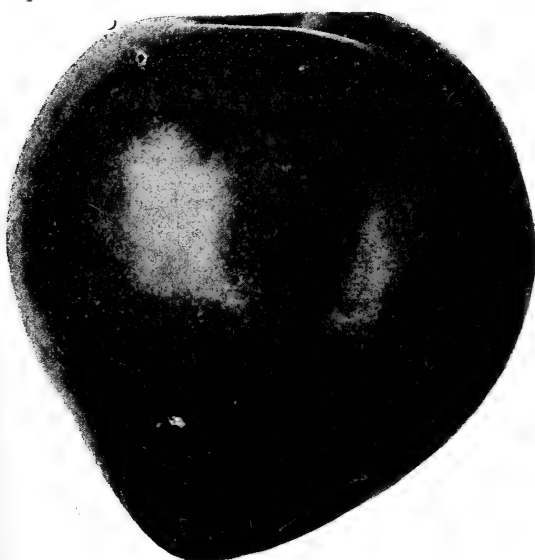
The Japan varieties are very distinct from the European varieties in their **very early bearing** proclivities, in being **heavier bearers** with more **highly colored fruit** running mostly to strong reds, and the exceedingly **strong character of growth**. They are **tremendous growers**, and **tremendous croppers**. They are as a whole rather inferior to the European varieties in quality, but on the other hand they grow in many localities where the others will not, and so fill a decidedly useful place.

**ABUNDANCE** Very productive of average good sized fruit, of a dark red color, with lilac bloom; juicy, fine grained, tender, very sweet, rich and pleasant; very good; freestone. Season early, before Burbank.

**BURBANK** Very productive; fruit large, dark red over a yellow ground; flesh rich yellow, juicy, fine grained, tender and sweet; clingstone. Conceded the best of all the Japans either for home or commercial use. August.

**RED JUNE** Medium to large, roundish heart shaped, garnet red with thin lilac bloom; flesh yellow, firm, meaty, sweet, good. Very early, before Abundance. Clingstone. Its earliness and good shipping qualities give it a decided commercial importance. Trees lack hardiness in some sections.

**OCTOBER PURPLE** Large, roundish, dark red on a yellowish green background; flesh yellow sometimes tinged with red, very juicy, fine grained, melting, with a tough skin which causes it to carry well. Quality good; clingstone. Early September.



WICKSEN PLUM.



ABUNDANCE PLUM.

**SATSUMA** Large, roundish, very dark red; flesh dark purplish red, juicy, fine grained, moderately firm, slightly sweet with an almond flavor. Pit small; clingstone. September.

**WICKSON** Rather shy bearer; fruit very large, heart shaped, greenish yellow blushed with red, changing on maturity to a very dark red; flesh yellow, juicy, coarse, firm and sweet; clingstone. Early September.

### MIKADO COLLECTION.

Extra, \$1.50; Regular, \$1.25

1 Abundance	1 Oct. Purple
1 Burbank	1 Satsuma
1 Red June	1 Wicksen

With every extra collection of above, we send free one fine, purple foliated plum tree—an ornamental variety—unless the grape premium is preferred.

**WE DO NOT INCLUDE ROOTS IN MEASUREMENT OF HEIGHT OF TREES**

#### COMMERCIAL FERTILIZERS

have their place if used judiciously.

When you do use them

**BUY THE CHEMICALS SEPARATELY**

**YOU SAVE FULLY 25%.**

Just TRY Nitrate of Soda on your timothy meadow, and SEE WHAT HAPPENS!

See page 32

**A PREMIUM WITH EVERY EXTRA SIZE COLLECTION.**

(See cut of grape premium, page 19)

## EUROPEAN VARIETIES.

## PRICES.

	Each	Per Doz.	Per 100
Extra size, 4 1/4-6 ft.	35c	\$3.50	\$25.00
Regular " 3 1/4-5 ft.	25c	2.50	20.00

**BRADSHAW** Very large, egg shaped; dark violet red changing to purple when ripe; flesh yellow, rather coarse, sweet, rich, juicy, very fine quality, and one of the best if not the best dessert plum, but not valuable as a market variety except for short distances. Half freestone. August fifteenth.

**FELLENBURG** (Italian Prune) —Fruit large, oval; purplish black, with thick white bloom; flesh greenish yellow, fine grained, tender, firm, agreeably flavored, very good quality; freestone. September. [NOTE—Is a valuable commercial variety, also good for home use for all purposes; is especially rich as a canned plum. Larger than German prune which it resembles closely. Tree not a very strong grower. W. L. M.]

**FRENCH DAMSON** Largest of the commercial Damsons; dull black with a thick bloom; juicy, fine grained, medium sweet, freestone. September to October.

**GERMAN PRUNE**

Fruit medium size, oval; skin purplish black, covered with thick bloom; flesh green, rather dry, fine grained, firm, sweet, of very good quality; freestone. September.

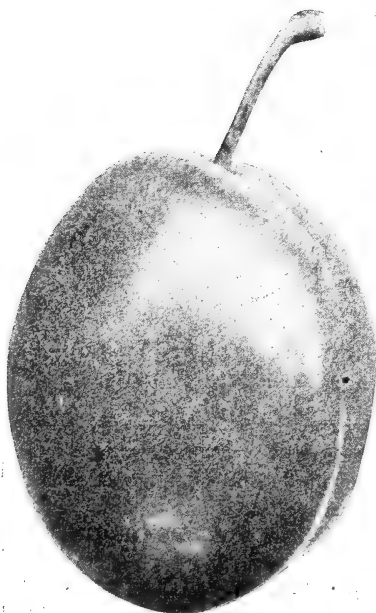


LOMBARD PLUM.

**LOMBARD** Vigorous, very productive, an annual bearer; large, oval, purplish red, becoming very dark; flesh yellow, juicy, fine grained, fairly firm and sweet, good; half freestone. August, September. [NOTE—This is one of the old "standbys" you should have. To eat out of hand we regard it next to Bradshaw and Reine Claude, among the varieties we list. It is in demand as a canning variety, low priced to be sure, but its regular, abundant crops counteract its moderate value to a great extent. It has two great essentials for success—it's easy to grow and is in good demand. W. L. M.]

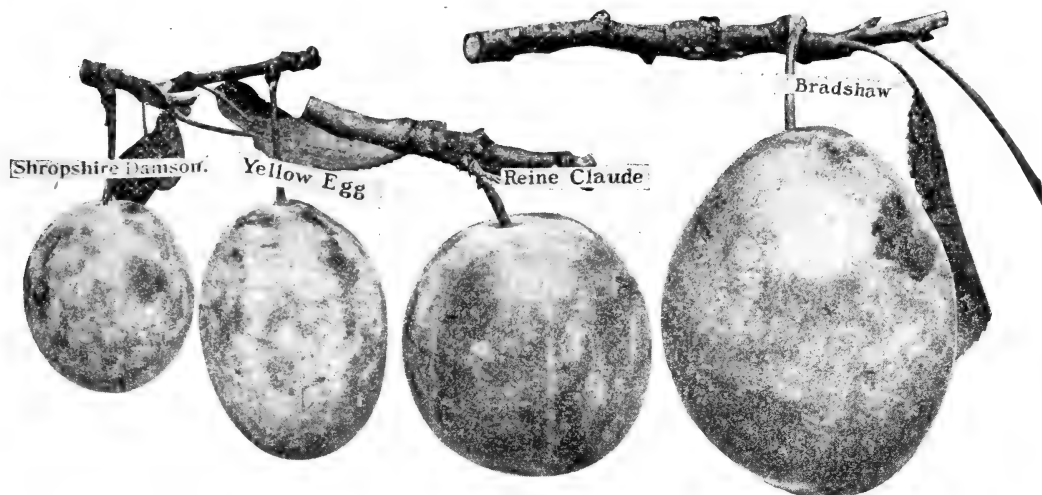
**MONARCH** Large, roundish oval; dark purplish red, with white bloom; flesh golden yellow, fine-grained, tender, sweet and of good quality; a valuable home and market variety; clingstone. September.

**REINE CLAUDE** The true Green Gage—Large, round, green turning to the most perfect golden yellow when ripe, in which stage it compares with Bradshaw as a dessert plum of the very highest quality. Flesh throughout its changes is the same as the skin in color; freestone. September, October. [NOTE—This variety is more in demand by the canners than all other varieties put together. In the past twenty years a third of all our plums have been Reine Claude, and they have produced double the money that the other two-thirds have. We cannot help ranking this above all other varieties for profit. The trees are short lived, and to grow Reine Claude one should plant an orchard about every ten years. W. L. M.]



GERMAN PRUNE.



**SHROPSHIRE DAMSON**

An improved Damson, grown with success in New York; medium size, oval, purplish black with thick bloom; flesh golden yellow, fine grained, firm, sour, changing to an agreeable, sprightly flavor when ripe; clingstone. September, October.

**YELLOW EGG**

A very vigorous, productive variety; fruit very large, long, oval; an attractive golden yellow covered with white bloom; flesh yellow, juicy, rather coarse, sweet and tender, of good quality; nearly free; September.

**SENECA VALLEY COLLECTION**

Extra, \$1.50; Regular, \$1.00

1 Bradshaw	1 Reine Claude
1 German Prune	1 Shropshire
1 Lombard	1 Yellow Egg

With every extra collection of above, we send free one fine, purple foliated plum tree—a perfect beauty—unless the grape premium is preferred.

**APRICOTS**

	Each	Per Doz.	Per 100
Extra size, 4½–6 ft	25c	\$2.50	\$20.00
Regular size, 3–4½ ft	20c	2.00	15.00

**MONTGAMET**

A large, rich yellow apricot of the very finest quality. Owing to the comparatively limited demand for this fruit we confine ourselves to growing this one variety, believing it to be the best of all.

**QUINCES****PRICES.**

	Each	Per Doz.	Per 100
Extra size, 3–4 ft.,	30c	\$3.00	\$25.00
Regular size, 2–3 ft.,	25c	2.50	20.00

**BOURGEAT**

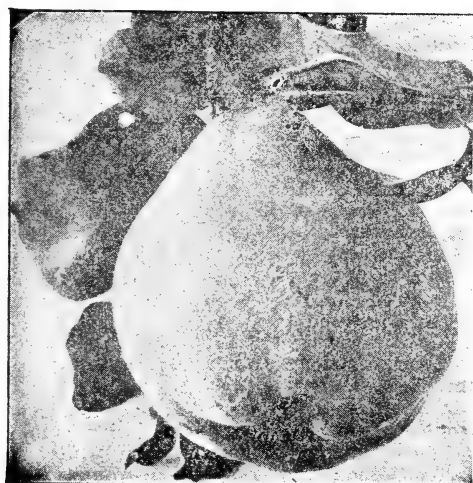
A new variety, very highly recommended. Large size, smooth, rich golden color, a late keeper. The most vigorous grower of all varieties.

**CHAMPION**

A strong grower, very early bearer, about two weeks later than Orange. Small, two year trees right in the nursery row are very often loaded with fruit.

**ORANGE**

Large, round golden yellow. The standard commercial variety everywhere but has blighted badly the last three years.

**CHAMPION QUINCE.**

## STANDARD APPLES

According to habit of growth and earliness of bearing, apple trees may profitably be set from 20 to 40 feet apart—we have planted Greening at 42 ft. filling in at 14 ft. throughout very profitably with peaches. When set at the wider distances a "filler" of an early bearing variety of apple or of peaches or small fruits is always profitable, between the more widely planted apples.

### PRICES, except as noted

	Each.	Per. Doz.	Per 100.
Extra size, 5-7 ft .....	40c	\$4.00	\$30.00
Regular size, 4-6 ft .....	30c	3.00	20.00

### HEIGHT OF ALL TREES MEASURED FROM THE BUD UP.

## EARLY VARIETIES

### EARLY HARVEST

Medium size; pale yellow, sometimes slightly blushed; flesh white, not firm, rather fine, crisp, tender, juicy, subacid, good to very good. Late July and August

### \*RED ASTRACHAN

Medium size; pale yellow, often nearly or quite overspread with light and dark red; flesh often tinged with red, rather fine, crisp, tender, juicy, subacid, aromatic, good to very good. Late July to September.

### SWEET BOUGH

Above medium to large; pale yellow, sometimes faintly blushed; flesh white, moderately firm, fine, somewhat crisp, very tender, juicy, sweet, aromatic, good to very good. August and early September.

### \*YELLOW TRANSPARENT

Medium to above medium; pale waxy yellow, changing to an attractive, yellowish white; flesh fine grained, crisp, tender, juicy, sub-acid, pleasant but not high flavored, good. Late July and August.

## FALL VARIETIES

### \*DUCHESS OF OLDENBURG

Medium to large; pale yellow, almost covered with splashes and stripes of bright red, mottled with crimson; flesh tinged with yellow, rather firm, moderately fine, crisp, tender, juicy, sub-acid, aromatic, good to very good for culinary purposes. Late August and September.

### KING

Large to very large; yellow, mottled or washed with orange red, often shading to deep red, striped and splashed with carmine; flesh yellowish, rather coarse, crisp, tender, aromatic, juicy, sub-acid, very good to best. October to January. This variety probably ranks fourth in quantity grown in New York State.

### \*McINTOSH

Above medium; clear whitish-yellow or greenish, washed and deeply blushed with bright red and striped with carmine, highly colored specimens becoming dark purplish red, overspread with a thin, lilac bloom; flesh white sometimes veined with red, firm, fine, crisp, tender, very juicy,

agreeably aromatic, perfumed, sprightly sub-acid, becoming mild and nearly sweet when very ripe, very good to best for dessert. October to December or later.

### PRICE OF McINTOSH

50c per tree extra size

35c per tree regular size

### MAIDEN BLUSH

Medium to large; pale, waxy yellow with crimson blush; flesh moderately crisp, tender, very juicy, sub-acid, good especially for culinary uses. September to December.

### \*WEALTHY

Above medium to large with a tendency to smaller size as trees age; pale yellow or greenish, blushed and marked with narrow stripes and splashes of red, very attractive; flesh sometimes stained with red, crisp, tender, very juicy, agreeable sub-acid, somewhat aromatic, good to very good. October to January.

## WINTER VARIETIES

### BALDWIN

Sometimes large to very large; skin light yellow, blushed or mottled with bright red, striped with carmine; flesh yellowish, firm, moderately coarse, crisp, rather tender, juicy, agreeable sub-acid, somewhat aromatic, good to very good. November to March or April.

### BEN DAVIS

Above medium to large; clear yellow or greenish, mottled and washed with bright red, striped and splashed with clear, dark carmine; flesh whitish, tinged with yellow, firm, moderately coarse, not very crisp, somewhat aromatic, juicy, mildly sub-acid, good. January to June. [NOTE—While Ben Davis as grown in the east is generally quite inferior in quality, it is one of our surest

croppers, one of the very best keepers, and very handsome; we regard it as a valuable commercial variety. W. L. M.]

### HUBBARDSTON

Above medium to large; yellow or greenish, blushed and mottled with red, varying from dull brownish to clear bright red; flesh whitish tinged with yellow, rather fine, tender, juicy, sub-acid, becoming mild, very good to best. January to April or later.

### \*LONGFIELD

Usually below medium; pale waxy yellow with a pinkish blush, but not striped; flesh nearly white, fine, crisp, very tender, juicy, sub-acid, aromatic, good to very good. At Geneva is a fall apple, but further north may be kept through the winter.



**MANN**

Medium to large; deep green partly overspread with a brownish red blush, changing to a pronounced yellow color later in the season; flesh yellowish, moderately coarse, moderately juicy, hard, becoming later moderately tender and somewhat crisp, sub-acid, **fair to good**. March or April.

**MISSING LINK**

Large; yellow, thinly mottled and striped with red on the exposed cheek; flesh yellowish, firm, coarse, tough yet somewhat crisp, moderately juicy, mildly sub-acid but eventually becoming **sweet, fair in quality**. A very late keeper.

**NORTHERN SPY**

Large to very large; the clear pale yellow ground color is nearly concealed with bright pinkish-red, mottled and splashed with carmine and overspread with a delicate bloom; flesh yellowish, rather firm, moderately fine grained, very tender, crisp, very juicy, aromatic, sub-acid, **very good to best**. November to nearly the close of the season. This variety ranks third in the state in the quantity produced.

**OPALESCENT**

Large to very large; skin glossy, taking a brilliant polish; pale yellow overspread with deep red, with scarcely perceptible streaks of purplish carmine; flesh distinctly tinged with yellow, rather firm, moderately tender, a little coarse, juicy, agreeable sub-acid, aromatic, **good to very good**. November to March.

**\*PEWAUKEE**

Above medium to large; green becoming yellow, washed or mottled with orange-red or red, striped and splashed with carmine, often covered with bloom; flesh nearly white, moderately firm, slightly coarse, rather tender, very juicy, sub-acid, slightly aromatic, **fair to good**. November to April.

**RHODE ISLAND GREENING**

Above medium to large; green varying to yellow, sometimes with brownish red blush, which rarely deepens to a bright red; flesh yellowish, firm, moderately fine grained, crisp, tender, juicy, rich, sprightly sub-acid, peculiarly flavored, **very good in quality**. October to March or April.

**SENATOR**

Below medium to large; deep rich yellow often almost covered with bright red, striped with darker red, in the sun deepening to a very dark blush; flesh tinged with yellow, firm, moderately fine, crisp, rather tender, juicy, aromatic, sprightly sub-acid, **very good to best**. November to February.

**SPITZENBURG**

Below medium to large; deep rich yellow often almost completely covered with bright red striped with darker red, in the sun deepening to a very dark, purplish blush; flesh tinged with yellow, firm, moderately fine, crisp, rather tender, juicy, aromatic, sprightly sub-acid, **very good to best**. November to February and later.

**STARK**

Medium to large; pale green becoming yellow, more or less blushed or mottled with red, and rather in-

**BEN DAVIS.**

distinctly striped with darker red; flesh yellowish, firm, somewhat coarse. rather tender, juicy, mild sub-acid, **fairly good**. January to May or June. [Note—A variety worthy of commercial planting it has a long list of excellent points—tree an extra strong grower—hardy—very prolific—reliable annual cropper—attractive—good shipper—splendid keeper, and **does well in all regions where the Baldwin succeeds**. W. L. M.]

**STAYMAN'S WINESAP**

Medium to large; green becoming yellowish, often nearly completely covered with rather dull mixed red indistinctly striped with dull carmine; flesh tinged with yellow or greenish, firm, moderately fine grained, tender, moderately crisp, very juicy, aromatic, pleasant sub-acid, **good to very good**. December to May.

**\*TOLMAN SWEET**

Below medium; skin tough, marked with suture lines sometimes extending almost from the cavity to the basin; pale clear yellow, sometimes a little blushed; flesh white, firm, neither tender nor crisp, rather hard, moderately fine, somewhat juicy, sweet, **good to very good**. November to January.

**CRAB APPLES**

Same price as apples. We offer the four best standard varieties: **Excelsior, Hyslop, Martha, Transcendent**.

**BECHTEL COLLECTION.**

7 Trees, Extra Size, \$2.00 7 Varieties.

From early fall to very latest keeping varieties. Our Selection.

A beautiful Bechtels double flowering crab as premium if preferred to the grape premium. (See description under ornamental trees.)

## GRAPES--Strong 2 Year Old Vines

Grapes like a warm, loose, well drained soil.

Plant in rows 6 to 8 ft. apart and 6 to 12 ft. apart in the row, according to the habit of growth of the variety. For garden culture of course it is customary to plant much closer, according to the room one has. **Price, per dozen, ten times the single rate.**

To trim grapes properly bear in mind this one thing—that the fruit is borne at the base of this years shoots that come from wood formed last year. Applying this general principle you can trim for a trellis as shown below, or you can train a grape up to a stake and plant quite closely for garden culture, and still trim your vine so as to get the best results, making it into a trunk from which bearing wood is kept growing the same as in the method described above. Fig. 1 shows the vine as properly trimmed during the winter, and Fig. 2 the same vine in fruiting the following fall, when trained to a trellis.

[We desire to make grateful acknowledgment to Professor U. P. Hedrick, Horticulturist, at the New York Agricultural Experiment Station, for descriptions of grapes taken from "The Grapes of New York," compiled and edited by him, and published by the State Department of Agriculture, 1908.

While these descriptions are necessarily much abbreviated, so far as they touch the vine, fruit cluster, berry and flesh, it has been our intent to follow Professor Hedrick literally. W. L. M.]



Fig. 1.

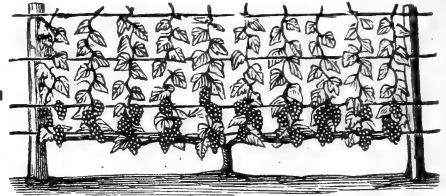


Fig. 2.

### BLACK VARIETIES

#### CAMPBELL'S EARLY

Vine vigorous to medium, hardy, productive. Variable in season, extending through a long period, earlier than Worden. Clusters from very large to medium, frequently shouldered, compact to slightly loose. Berries usually large, dark purplish black with heavy blue bloom, moderately firm. Flesh greenish, juicy, slightly coarse, not foxy, good, improves by hanging on the vine, superior to Concord. Seedling of Moore Early, hence tracing back to Concord on one side. [NOTE—"The preeminently meritorious qualities of Campbell Early are: High quality when mature; freedom from foxiness and from acidity about the seeds; small seeds which part easily from the flesh; earliness of maturity, ripening about a fortnight before Concord; large size and attractive appearance of bunch and berry; comparative hardness of the vine; and good shipping and keeping qualities. It falls short chiefly in not being adapted to as many soils and conditions as some varieties \* \* \* lacking in that elasticity of constitution so characteristic of Concord. Its reputation for quality has suffered \* \* \* because it attains its full size and color before it is ripe."—Hedrick. 30c each.]

**CONCORD** Vine vigorous, hardy, healthy, usually productive of heavy crops. Fruit ripens mid-season, keeps one to two months. Clusters medium to large, shouldered, rather compact. Berries medium to large, black, covered with abundant blue bloom, firm. Flesh pale green, juicy, rather fine grained, slightly foxy, good in quality. [NOTE—This has been called "The grape for the millions." It is estimated that seventy-five per cent. of the grapes in N. Y. State are of this variety. If in your region you can grow any grapes at all, the Concord will give you, in the long run, twice as much as any other variety. W. L. M.] Price 15c each, \$1.00 per doz., \$5.00 per 100



CAMPBELL'S EARLY.

**MOORE  
EARLY**

Vine medium to vigorous, hardy, not a heavy yielder. Fruit two to three weeks earlier than Concord, does not keep well. Clusters intermediate in size, shouldered, inclined to looseness. Berries large to above medium, purplish black, covered with abundant blue bloom, nearly firm. Flesh greenish, juicy, fine grained and tough, slight foxiness, fair to good in quality. A seedling of Concord. 15c each.

**WORDEN**

Vine vigorous, hardy, healthy, productive, yielding as heavy crops as the Concord. Fruit two to three weeks earlier than Concord, does not keep long. Clusters large, usually shouldered, somewhat compact. Berries large, dark purplish black, glossy, covered with heavy blue bloom, moderately firm. Flesh greenish, juicy, fine grained, tough, good to very good in quality. A seedling from Concord, the most meritorious of them all. 15c each.

**RED VARIETIES.****AGAWAM**

Vine vigorous, usually hardy, medium to productive. Fruit ripens soon after Concord, keeps till mid-winter. Clusters medium to large, sometimes shouldered, somewhat loose. Berries nearly large, dull purplish red, covered with lilac bloom. Flesh pale green, tough, solid, foxy, good in quality. (A Rogers Hybrid, No. 15.) 15c each.

**BRIGHTON**

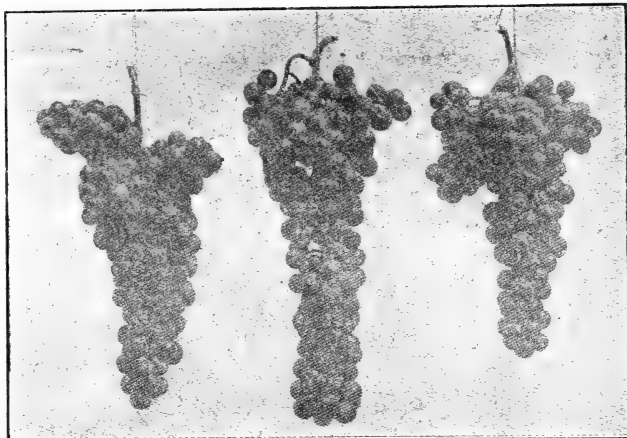
Vine vigorous and hardy, producing average to good crops. Fruit mid-season, keeps well for a short time. Clusters very large to medium, often heavily shouldered, loose to compact. Berries medium to large, red, somewhat glossy, covered with dark lilac bloom, handsome, not firm. Flesh greenish, tender, melting, vinous, very good in quality. A cross from Concord. This is one of the very best red varieties. 20c each.

**CATAWBA**

Vine vigorous to medium, hardy, productive. Fruit late, keeping till March or later. Clusters large to medium, shouldered, loose to compact. Berries medium, dark purplish red, with a moderate covering of lilac bloom; firm. Flesh green, juicy, fine grained, vinous, somewhat foxy, sweet and rich, very good in quality. Parentage unknown. 15c each.

**DELAWARE**

Generally considered the highest in quality of any American variety. Vine not a strong grower, hardy except in unfavorable localities, fairly productive. Fruit a few days earlier than Concord, keeps well. Clusters medium to small, regular, usually shouldered, compact. Berries small to medium, light red covered with a thin, lilac bloom, firm. Flesh light green, juicy, tender, vinous, aromatic, sprightly and refreshing, sweet to agreeably tart, best in quality. Parentage unknown. 20c each.



OUR GRAPE PREMIUM.

**OUR GRAPE PREMIUM**

Three choice varieties, our selection, given free.

1st, with orders of \$2.00 or more except such as go by mail.

2d, with all extra sized fruit tree collections, when preferred to other premiums offered.

3d, with all dwarf apple collections.

4th, with the Garden Collection of raspberries, the Blackbird collection of blackberries, and with 100 McKay's Giant Asparagus.

Where an order takes one or more premiums on account of collections, no separate premium is given on account of the order being over \$2.00.

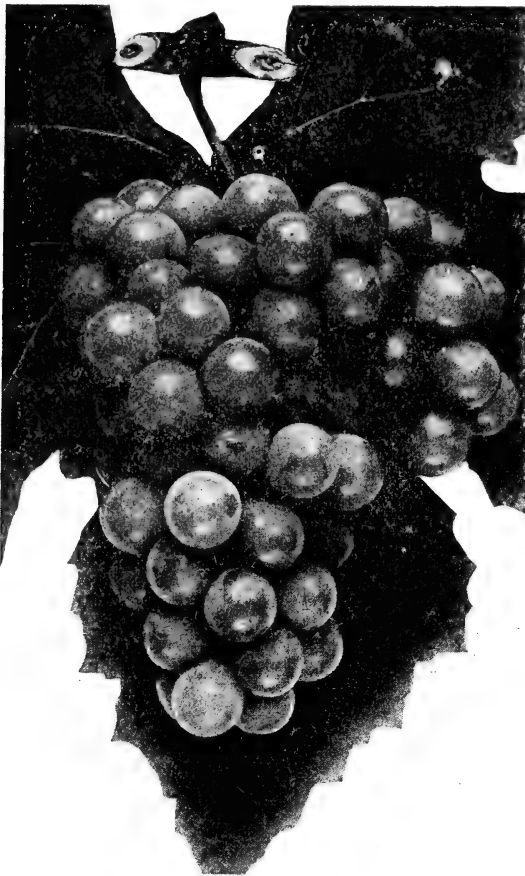
Cash must accompany order to entitle to any premium.

**WHITE OR GREEN VARIETIES.****EMPIRE STATE**

Vine fair to good grower, usually healthy, tender in some localities, productive. Fruit ripening a little earlier than Niagara, keeps well. Clusters large to below medium, frequently shouldered, medium to compact. Berries medium to below, covered with gray bloom, moderately firm. Flesh pale yellowish green, very juicy, fine grained, tender, good to very good. Among these four varieties, this is placed third in quality, and fourth in general excellence. Parentage uncertain. 20c each.

**GREEN  
MOUNTAIN**

(Winchell)—Vine vigorous, hardy, healthy, very productive. Fruit very early, sometimes before Moore Early, keeps and ships well. Clusters large to below medium, often shouldered, loose to moderately compact. Berries above medium to small, light green with thin white bloom, soft. Skin thin, tender. Flesh greenish, juicy, tender, fine grained, sweet, very good to best in quality. [NOTE—"Winchell is at once very early and of very good quality, characters seldom found combined in grapes. \* \* \* There are some minor faults, too, which under



NIAGARA GRAPE.

some conditions become drawbacks to the culture of Winchell. \* \* \* These defects do not begin to offset the several good characters of Winchell, and it is for New York at least, the standard early green grape and deserving to rank with the best early grapes of any color." —Hedrick. 30c each.

**MOORE'S  
DIAMOND**

(Diamond)—Vine medium to vigorous, hardy, productive in most localities. Fruit ripens slightly earlier than Niagara, keeps well. Clusters variable in size, often shouldered, compact. Berries above medium to medium, glossy, covered with thin gray bloom, firm. Flesh pale green, juicy, tender, melting, fine grained, aromatic, sprightly, **quality very good. Of Concord parentage.** For a green grape of high quality the Diamond ranks probably next to Green Mountain. 20c each.

**NIAGARA**

Vine vigorous to medium, less hardy than Concord, very productive. Ripens with Concord, keeps fairly well. Clusters large to medium, frequently shouldered, moderately compact. Flesh light green, juicy, fine grained, moderately tender, foxy, **as good or better than Concord in quality.** A seedling of Concord, crossed with Cassady. This occupies the same place among the green grapes, that Concord does among the black varieties, and should, with the Concord, be in every garden. 15c each.

**A ROSE BUSH FREE** with every grape collection

Our Selection of Variety.

See our four splendid grape collections.

QUALITY collection, 1 Campbell Early, 1 Green Mountain, 1 Delaware..... 60c  
BIG FOUR collection, 1 Concord, 1 Worden, 1 Delaware, 1 Niagara ..... 50c  
STANDARD collection, 1 Concord, 1 Agawam, 1 Green Mountain, 1 Moore Early, 1 Brighton,  
1 Empire State..... 75c  
LAKESIDE collection, 1 Campbell Early, 1 Catawba, 1 Diamond, 1 Worden, 1 Delaware, 1 Niagara. 75c

## GOOSEBERRIES

**INDUSTRY**

An English variety best adapted to our climate of any, but still somewhat liable to mildew; fruit very large, good for culinary use when green and a fine dessert fruit when ripe; a brilliant, showy red, very handsome and wonderfully productive. This should be in every collection. 20c each, \$2.00 per doz.

**AMERICAN VARIETIES**—Will not mildew. 15c each; \$1.50 per doz.

**DOWNING**

Fruit medium size, roundish, light green, smooth; flesh soft, juicy, and good; vigorous and very productive.

**HOUGHTON**

Fruit almost medium size, smooth, red, tender, very good; a good cropper.

## RASPBERRIES

Our plants are tied in 6's, 12's, and 25's; please order in these numbers or their multiples.

Plant in rows 6 to 7 feet apart and plants 3 to 3½ feet apart in the row. Of course in the garden, much closer planting will be allowable. Each winter cut out the old bearing canes of the previous season. 6 at dozen rate, 50 at 100 rate.

### BLACK DIAMOND

This is the New Black variety that you want to try. Among the largest, probably the best drying berry ever grown, being equal to the old "Ohio" and larger.

50c per doz., \$2.00 per 100

### CUTHBERT

Red; this variety has for many years had the distinction of being considered, by the majority of growers, the best red raspberry ever produced both for home and commercial use. It is rare that any variety of any kind of fruit can show such an array of superlative characteristics as Cuthbert; perfectly hardy—very vigorous, productive, large, perfect color, firm, a main crop berry, highest quality. It seems to require a fairly heavy soil, but with this limitation it seems to do well generally over the state. Its season opens July 6th to 10th, and closes Aug. 1st to 7th. This is our record for over ten years on a 5 acre plantation. 40c per doz., \$2.00 per 100.

### COLUMBIAN

A purple variety, a hybrid of Cuthbert and Gregg. It has the plant of the black varieties and the fruit of the red except in color which is a compromise between the two. The plant is hardy and an

enormously strong grower. Very productive, fruit larger than Cuthbert, easily picked, and like Cuthbert, is wanted extensively for canning. It is a few days later than Cuthbert.

40c per doz., \$1.50 per 100, \$10.00 per 1000

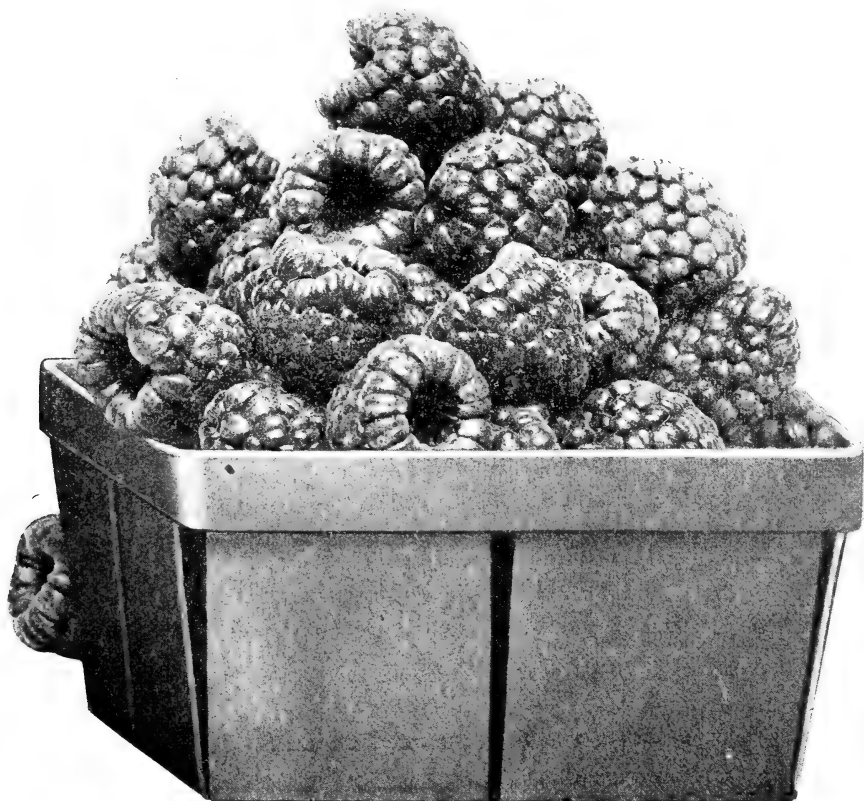
### CUMBERLAND

Quite new, a hardy, great big black cap, producing enormous crops of fine quality, firm, berries. It should be given a trial.

60c per doz., \$2.00 per 100

### EUREKA

Black; a comparatively new variety which has established so good a record in this vicinity as to merit a place on the list of "desirable kinds" in the Station Bulletin, No. 278. In vigor, hardiness and productiveness it does not vary widely from Gregg. Its fruit is medium to very large, firm, sweet, mild, and of good quality. [NOTE—In selecting a variety of black cap to list as an early berry, and relying on the information in Bulletin 278, this variety, taking everything into consideration, seemed the best one to select. I have reports from other localities also, showing it to be highly thought of elsewhere. W. L. M.] 50c per doz., \$2.00 per 100.



CUTHBERT RASPBERRY—THE QUEEN OF THE MARKET.



MUNGER BLACK RASPBERRY.

**GOLDEN QUEEN** The best yellow variety; vigorous, hardy, productive; fruit large, light yellow, soft, juicy, fairly good quality. It is worthless commercially, but every collection should include a few plants. \$1.00 per doz.

**GREGG** Black, with a decided bloom; plants very hardy, vigorous and productive. Fruit above medium to very large, attractive color, sweet, and excellent quality. Not so productive as some others, but has for forty years stood among black caps where Cuthbert has among the reds. The growers like size and quality, and the good old Gregg gives both. 40c per doz., \$2.00 per 100.

**HERBERT** The following description is taken from the New York Experiment Station Bulletin, No. 278, by O. M. Taylor, Foreman in Horticulture. "Plants moderately vigorous to rather vigorous, not so tall as Cuthbert, hardy or nearly so, very productive. Fruit above medium to very large, averaging slightly larger than Cuthbert, moderately firm to nearly firm, averaging slightly softer than Cuthbert, juicy, good to very good in quality. This variety appears to be one of the most promising of the newer red raspberries, and is considered worth testing for commercial purposes." [Note—I am a "Cuthbert" man clear through, and while I know that some day a better berry must

arise, I did not expect to live long enough to see it. I am not sure that in all respects the Herbert is that berry, but it looks so much like it that I shall plant at least a thousand next spring alongside my Cuthberts to see "if they can prove it"! There is no question whatever as to two points—the Herbert is at least as hardy—and I believe hardier, and it outyields Cuthbert nearly or quite two to one. This fact has been creditably demonstrated. In Geneva it is about a week earlier than Cuthbert, but matures its crop much quicker than Cuthbert. This is a point of decided advantage if grown for the canning trade, possibly of disadvantage if grown for the general market. The Herbert has been out long enough, 15 years, to be thoroughly tested. It is a Canadian variety. I have arranged for plants from Canada direct from its introducer, and unhesitatingly recommend its trial. While this is the highest priced berry on the market today, we have made a very low collection rate including Herbert, in our "Garden Collection," below. W. L. M.] \$1.50 per doz., \$10.00 per 100.

**MUNGER** Black, late; has proven a grand berry, being a vigorous grower, hardy, productive, with large, fine fruit. This is the first year we have listed this variety, and have taken it up on account of its high recommendations for quality. 75c per doz., \$3.00 per 100.

#### GARDEN COLLECTION

6 HERBERT, red. 6 Eureka, early black  
6 Columbian, purple 6 Munger, late black

Price, listed separately, \$1.57

**COLLECTION PRICE, ONLY \$1.00**

Includes also our premium of 3 grape vines, page 19.

Note—We are often asked to send raspberry and blackberry plants by mail—our grading is such that it is impossible to do so economically; we discard entirely the size that is ordinarily used for filling orders by mail.

## BLACKBERRIES

Our plants are tied in 6's, 12's, and 25's; please order in these numbers or their multiples.

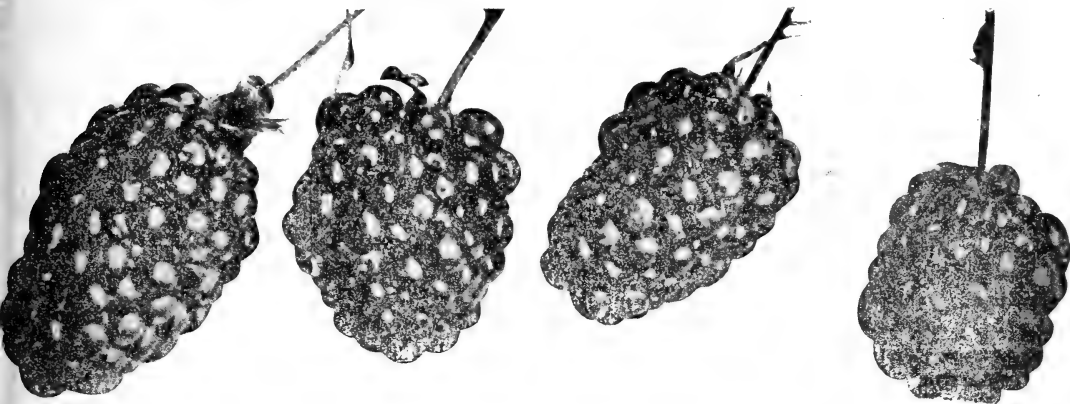
Plant in rows 6 to 7 ft. apart, plants 3 ft. apart in the row. Each winter cut out the old canes.

6 at dozen rates, 50 at 100 rates.

**AGAWAM** Probably no berry combines the good points that make this the best of all varieties for family use. Hardy, big, softening as it ripens, quality the very highest, and matures its crop over the whole season from early to late. It is easily Queen of Black berries in the home garden. 50c per doz., \$2.00 per 100.

**BLOWERS** The originator from whom our plants come, claims this is the strongest grower, heaviest bearer, of longest season, perfectly hardy, and of good size and quality. We believe it has real merit. While it's high priced, we place it in the collection, thus bringing its cost down to the average. \$1.00 per doz., \$6.00 per 100.





ANCIENT BRITAIN

MERSEREAU

AGAWAM

BLOWERS

**BLACKBIRD COLLECTION**—6 each of above 4 varieties, 24 plants, \$1.00. The Premium of 3 Grape Vines Free with this Collection.

**ANCIENT BRITAIN**

A vigorous, stocky, hardy variety, very productive; fruit medium to large, rather long, with good black color; quality good; a fine berry for the home garden, and is also considered a standard commercial variety. 50c per doz., \$2.00 per 100.

**ELDORADO**

Plants very hardy; fruit medium to large, mild, very good. Early. 50c per doz., \$2.00 per 100.

**MERSEREAU**

A seedling of Snyder, hardy, very vigorous, healthy, fruit above medium to large, slightly elongated, handsome black color, juicy, sweet and good quality. This berry has made a good record in many parts of the state, seeming to have the good qualities of its parent without its defects. Early. 75c per doz., \$3.00 per 100.

**MINNEWASKI**

Said to be not so hardy as most of our popular sorts, but we had had it several years and found no difficulty with it. The fruit is above medium to large, sweet and juicy when fully ripe, and good quality. Early. 50c per doz., \$2.00 per 100.

**SNYDER**

An old standby, enduring cold that puts about all the rest out of business. It is only medium size, must be fully matured on the bush, when it is juicy, sweet and good. It is very vigorous, and very productive. Late. We have an unusually fine stock of splendid Snyder plants and shall put the price at 40c per doz., \$1.50 per 100.

**RATHBUN**

Is not quite hardy enough for Geneva winters. Fruit medium to very large, slightly elongated, attractive black color, good. Is only moderately vigorous and productive here. It is of Delaware origin, and from all evidence in regard to it we are inclined to think it will prove a valuable berry in a climate more suited to it than ours here. Late. 60c per doz., \$2.00 per 100.

**TAYLOR**

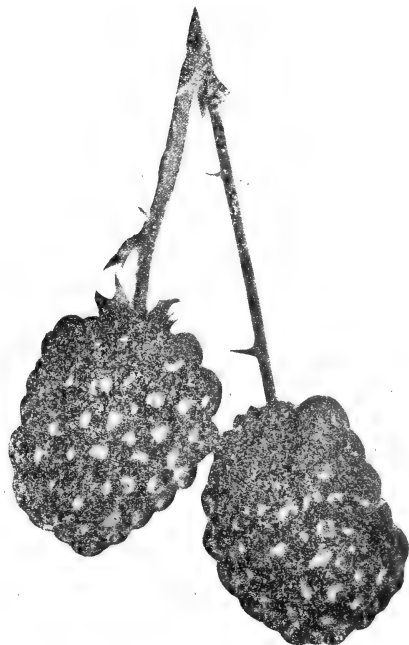
Canes light colored, very vigorous and hardy; fruit medium, elongated, sweet, good flavor and quality. Two weeks later than Snyder, but is not so productive and probably inferior to it as a variety, in most localities. 50c per doz., \$2.00 per 100.

**WAUCHUSETTS**

We have this fruiting and can say that it is a better berry than we had been led to expect. It is hardy and vigorous with us, fairly productive and of good fair size, juicy, sweet and good quality. It is far less thorny than most varieties, having originally been brought out as a thornless berry. 50c per doz., \$2.00 per 100.

**LUCRETIA DEWBERRY**

Probably best of the Dewberries or "Trailing Blackberries." Early, hardy, productive, yielding a large, well colored, soft, luscious blackberry of fine quality and character for home use, but too soft for shipping. 10c each, 60c per doz.



LUCRETIA DEWBERRY.

## CURRENTS

Extra strong, 2 yr. plants.

Commercially we advise planting 5 by 5 ft., so as to cultivate both ways. Trim each year, thinning out the old wood, and preserving the more vigorous young shoots.

10c each, \$1.00 per doz., \$7.50 per 100, except as noted.

### BLACK CHAMPION

Vigorous and productive; probably the best of the black varieties.

### CHERRY

Very large, deep red berries, in rather short, heavy clusters, acid; plant very vigorous and productive.

### FAY'S PROLIFIC

Color deep red; great bearer, clusters longer than Cherry and more thickly borne on the branches. Sweeter than Cherry, higher quality and earlier.

### PERFECTION

New, a cross between Cherry and White Grape; color bright red, large size, very productive, clusters very long, size of berry being maintained well to the end; quality good. We have this in fruiting—the clusters hang in perfect ropes on the stem. 20c each, \$2.00 per doz., \$15.00 per 100.

**WHITE GRAPE** Large, yellowish white, sweet, excellent quality, valuable for table use; vigorous and productive.

**WHITE IMPERIAL** A new white currant, quite similar to the last, with larger berries; clear, transparent yellow, very sweet, high quality.

### WILDER

Red, and as a commercial variety today stands at the top. The plant is vigorous and productive to the highest degree. It is good size in both berry and cluster, good quality and color, firm, a fine shipper.

## RHUBARB

### McKAY'S MAMMOTH

A very strong growing, tender, delicious variety which with us, under forced conditions has made a growth of four inches a day. 25c each, \$2.50 per doz.

## ASPARAGUS

For garden culture plant  $2\frac{1}{2} \times 2\frac{1}{2}$ , for commercial beds,  $5 \times 2\frac{1}{2}$  ft. Plant at least 6 inches deep, cover 2 inches and fill in as the plant grows.

Two and three year plants, \$1.00 per 100, \$6.00 per 1000.

### CONOVER'S COLLOSAL

A standard variety which till the introduction of the Palmetto and McKay's Giant, stood alone as the best.

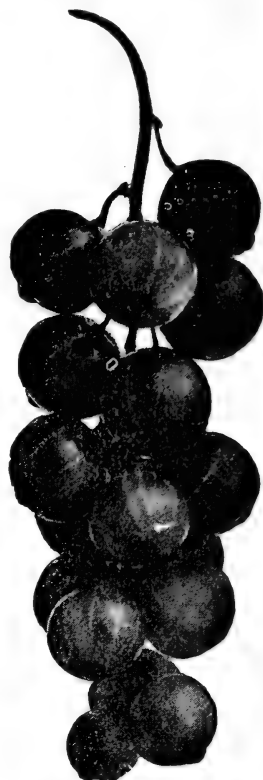
### PALMETTO

A new variety, generally proving more productive than Conover's.

### McKAY'S GIANT

A new variety originating in New Jersey, which has proven its value as a great cropper. It has made a record of \$6,446.35 in net returns from 12 measured acres. It is a green variety, similar in appearance to Palmetto. 50c per 25, \$1.25 per 100, \$10.00 per 1000.

Remember the grape collection with each order of 100 McKay's Giant.



PERFECTION CURRANT.

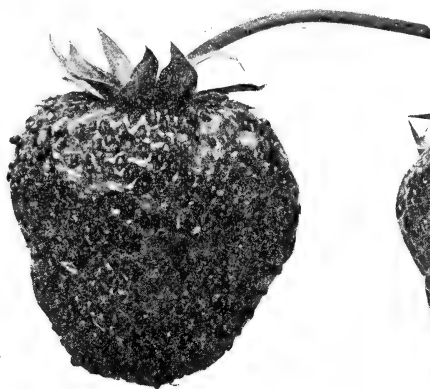


McKAY'S GIANT ASPARAGUS.

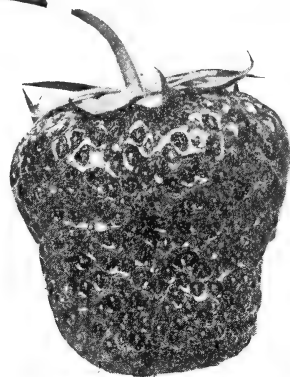




WILLIAM BELT



SENATOR DUNLAP



MARSHALL

## STRAWBERRIES

Plant so that the crown is just above the surface, so that rains will not wash the soil into it and check its starting. Cultivate thoroughly and till late fall; mulch well in winter; fertilize heavily.

The following varieties are all perfect flowered and will fertilize themselves, except Bubach which requires to have a perfect variety planted near.

We describe only a few varieties, all grown on our own grounds, as they are entirely adequate for both home use and for commercial use in this state. Strawberry plants keep so badly after digging that we prefer to ship only kinds grown by us so we can dig an order immediately before shipping.

We will not ship strawberries with other stock by freight as they are almost sure to heat. It is best too, for the plants to be left till about May 1st before shipping—which may be a little late for other plants and trees. Where it is practicable we will send your strawberries with the rest of your order by express, but if the plants are not ready they will have to follow later.

Prices, delivered at Express office in Geneva, properly packed. \$1.00 per 100, 50 at hundred rate, \$7.50 per 1000, Postpaid, 25c per doz., 40c for 25, 75c for 50, \$1.00 for 75, \$1.25 for 100.

Our plants have often gained such size that they cannot be mailed for the prices given—on mail orders therefore, we reserve right to send by prepaid express, if we prefer.

**WHEN YOU GET OUR STRAWBERRY PLANTS, YOU ARE GETTING SOMETHING WORTH WHILE**

### SENATOR DUNLAP

Probably the most popular, and deservedly so, of any berry introduced in years. Fairly early, good size to large, vigorous and productive, it fills about all requirements for home use and the market.

### BUBACH

Later than last, a strong grower, productive; berries very large, fine color and quality and a splendid variety. Sterile; plant either Marshall or Belt alongside it.

### MARSHALL

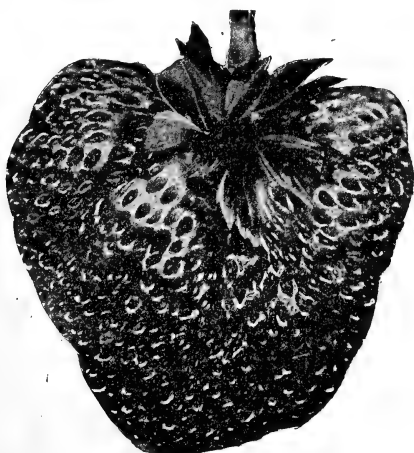
This berry suits us for home use, best of all. Early to mid-season. Its a great big, longish or wedge-shaped berry, extremely dark both as to color and flesh, only a moderate cropper, just fair, and in quality we regard it as of the very highest. With intensive methods there seems to be no reasonable limit to its size.

**WILLIAM BELT** A Splendid variety. A strong grower, productive, high quality, of good size and handsome fruit. Mid-season.

### WILSON

A good old standby, one of the very best ever brought out for canning. Is about the only variety of a generation ago, which is still cultivated. Mid-season to late.

**STEVEN'S LATE** The most popular late variety. Very healthy, vigorous and productive. The fruit is large, deep red and firm, and keeps a long time on the vines after ripening.



BUBACH

# ORNAMENTAL DEPARTMENT

Single rates only are given, the dozen rate always being ten times the single rate.

## ROSES ROSES ROSES

Trim to few inches from ground when planted—enrich—give lots of sun—water only till safely started or in severe drouth—get up early and hoe them every day—get the right varieties **ON THEIR OWN ROOTS**—then don't worry—**YOU'LL HAVE ROSES!**

Roses in June,

Roses in July,

Roses in August,

Roses in September,

Roses in October,

Roses in November.

I am often asked, "Why can't I have roses after they first come in June?" Well, you can—it's only a question of variety.

When we dug our roses, **NOVEMBER 19th**, last, these twelve varieties were in bloom:

**EVERY VARIETY LISTED HERE IS GROWN ON ITS "OWN ROOTS",** except Mosses and Persian Yellow, **AND IS GROWN IN OUR OWN NURSERIES.**

**I WONDER IF YOU REALIZE THE IMPORTANCE OF THIS?** It means just this: When your rose freezes to the ground some winter, and its almost sure to some time—it will start up from the root again without having experienced the slightest permanent injury, and you still have the same rose you planted. If the rose, instead of being grown from a slip is "budded" or "grafted," it is done on a wild stock used for that purpose, and when it freezes down—as it is almost certain to do—it starts up from the root, and you get—**A WILD ROSE.**

Why, you ask, are roses so grown? **BECAUSE THEY CAN BE GROWN "CHEAP."** There is a wide difference between "economical" and "cheap"—the own root roses are in the former class, the budded ones in the latter.

## RAMBLERS, WICHURIANAS, ETC.

Very strong growers except "Baby," which is very light "Baby" is a continuous bloomer, from June till snow flies—is the greatest bloomer of all varieties. All other ramblers offered bloom but once, but very profusely and are all climbing in habit.

**BABY RAMBLER**

A continual bloomer, a small, deep pink rose, borne in large clusters. **20c.**

**CRIMSON RAMBLER**

Crimson, clustered, one plant often producing thousands of blossoms. **20c.**

**DOROTHY PERKINS**

Beautiful shell pink, the prettiest of all, free blooming as Crimson. **15c.**

**LADY GAY**

A new variety, vigorous and hardy. Delicate pink, changing to white. **25c.**

**PINK RAMBLER**

Pink in the bud, semi-double, very delicate. **25c.**

**WEDDING BELLS**

A new variety earlier than Lady Gay, not quite so large, but a strong, deep pink and a very vigorous grower. **25c.**

**WHITE RAMBLER**

Same as the pink, except in color. **20c.**

**YELLOW RAMBLER**

Very light straw color, larger than Pink, **20c.**

**HYBRID PERPETUALS, HYBRID TEAS, ETC.**

All hardy and bloom during the season, except as noted.

**APPOLINE**

The new Hermosa. Hardly to be distinguished from Hermosa in flower, unless perhaps a little larger; quite as profuse a bloomer. The plant is distinctly different, a shorter, stockier growth. **30c.**

**CAROLINE de SANSAL**

Delicate flesh pink, vigorous. **25c.**

**CLOTHILDE SOUPERT**

Vigorous, very free bloomer, clustered; delicate flesh or blush color. **30c.**



DOROTHY PERKINS

**SIZE OF ROSES**--With few exceptions our rose bushes have the equivalent of **three seasons** growth out doors, being grown to good size pot plants in the green house, transplanted to the open and there grown mostly two years. They vary greatly in size, from the "Baby" with its **10 to 15 inches** in height, to the climbers with their growth of **from 4 to 8 feet**. Most varieties run about **20 to 30 inches**, are well branched and strictly fine plants.

**COQUETTE  
des BLANCHES**  
bloomer. 25c.

Pure white, very double,  
medium size, extremely free

**COQUETTE  
des ALPS**

White, later blooms having a  
decidedly flesh tint; except  
Hermosa the freest bloomer  
in this class—blooms right up to freezing time.  
We regard this as the best of the blush white  
roses. 25c.

**FRANCOIS  
LEVET**

A most beautiful bright,  
light red rose, being especial-  
ly beautiful in the bud,  
which is long and pointed. With us not a very  
free bloomer, but a rarely beautiful variety. 35c.

**FRAU KARL  
DRUSCHKI**

(Snow Queen)—This is a  
new, pure white rose, and  
has about all the good points  
a rose can have. It has a very large bloom with-  
out being in the least coarse; long, handsome  
pointed buds, opening rather slowly; flower stem  
is very thick and heavy a single flower lasting in  
water for days. When fully opened the bloom  
distinctly resembles the camelia. The petals are  
thick and heavy, this and the thick stem both  
contributing to its lasting quality. [NOTE—  
Among so many beautiful varieties of roses as are  
grown today, it is difficult to pick any one out and  
say, "this one is the finest." But in the case of  
the Frau Karl, I believe a majority of rose grow-  
ers would select this one as without exception the  
finest of all. Instead of having the alternative  
name of "Snow Queen," it richly deserves the  
name of "Rose Queen." W. L. M.] 50c.

**GENERAL  
JACQUEMINOT**

Brilliant crimson, one of the  
very best. 25c.

**GRUSS an  
TEPLITZ**

This is a most delightful  
rose—blooms almost as freely  
as Hermosa and Appoline—  
and of all the great bloomers listed here is the only  
deep colored rose. It is a deep, vivid color,  
variously described by cataloguers as crimson,  
scarlet, carmine, red, and all possible combina-  
tions of those terms; its just **Gruess an Teplitz**  
color—a distinctive color we have never seen in  
any other rose. The blooms are short lived if  
picked, having a very slender stem and opening  
out rather quickly; but is a most beautiful rose,  
especially adapted to bedding, and is **more than**  
**worth while**, notwithstanding its one weak point.  
35c.

**HERMOSA**

A hardy pink tea rose,  
blooms constantly from  
June till heavy frosts. Next to "Baby" as a free  
bloomer. 25c.

**JOHN KEYNES**

This is one of the darkest of  
the red roses, a very free  
bloomer, continuing at intervals to the end of the  
season. 20c.

**KILLARNEY**

Another beautiful hybrid  
tea having a most delicate  
flesh pink cast, very long and pointed buds, one  
of the finest in this respect. A very free bloomer  
all during the season. 35c.

**LAFRANCE**

Among the oldest of the  
modern class of Hybrid tea  
roses—a class which has given us many of the  
very finest varieties. Exceeding beautiful in the  
bud and when partly open, its pink, reflexed  
petals with silvery underside making it especially  
effective in the half open state. Is **not quite**  
**hardy** here; is most successful grown inside. 30c.

**FRAU KARL DRUSCHKI (SNOW QUEEN)****LEOPOLD  
PREMIER**

A large, deep rich crimson  
rose, of the pure Jacque-  
minot type; very free bloom-  
er in the early season, but not continuous. Is a  
stronger grower than Jacqueminot and an exceed-  
ingly handsome rose. 25c.

**MADAM ALFRED  
CARRIER**

Hybrid Noisette. A beauti-  
ful, large size, rich cream  
white rose, with especial  
beauty when in the bud, which is very long and  
pointed. Plant vigorous, with almost climbing  
habit. Not a very free bloomer, but each bud as  
it appears makes it well worth while. 25c.

**MADAM  
PLANTIER**

A hybrid China rose, blooms  
but once, but in June the  
bush is buried under a pro-  
fusion of pure white blooms, in heavy clusters.  
Trim much less than most varieties as it blooms  
from the old wood. 25c.

**MAGNA CHARTA**

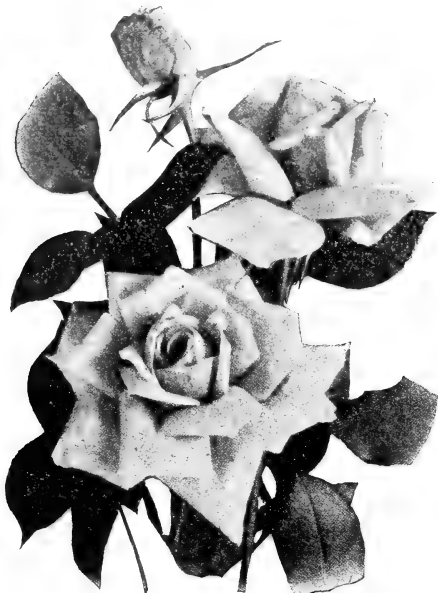
A very strong competitor of  
the Paul Neyron—a perfectly  
magnificent pink rose, extra strong grower and a  
fine variety in all respects. 25c.

**MRS. JOHN  
LAING**

This is one of the best pink  
roses of the type represented  
also by Paul Neyron and  
Magna Charta. A large flower, bright satiny  
pink, very fragrant and a constant bloomer from  
June till winter. 35c.

**PAUL NEYRON**

Probably the largest rose in  
cultivation, a fine bright  
pink, very fragrant, plant exceptionally vigorous.  
Bloom with a strong stem, lasting a long time  
after cutting. Blooms the entire season at inter-  
vals. 25c.



KAISARIN AUGUSTA VICTORIA

**CLIMBERS.**

These bloom from last year's wood. Trim cautiously.

**BALTIMORE BELLE**

White with blush center; very fine. 20c.

**GEM OF THE PRAIRIE**

Similar to "Queen" except darker, larger and is fragrant. 25c.

**QUEEN OF THE PRAIRIE**

Bright rose color, large and a free bloomer. 20c.

**HARDY, UPRIGHT SHRUBS.****ALTHEAS, OR ROSE OF SHARON**

A class of thrifty growing, very upright shrubs, in great variety of colors, blooming during a large part of September and October when

nearly all others have past their season. We have the following varieties:

**Ardens**—A fine red variety, very handsome. 25c.

**Alba**—A free blooming white variety. 25c.

**Ball of Fire**—Dark red, more double than Ardens. 25c.

**Lady Stanley**—A handsome white variety with dark wine colored center and striping on the petals. 35c.

**Variiegated Leaved**—For foliage effect only, the flower buds being inconspicuous and not opening. Handsome green foliage, leaves edged with a light golden band. 35c.

**BARBERRY** One of the best purple foliaged shrubs; **PURPLE-LEAVED** holds its color well during the season, very handsome either massed or planted alone. 25c.

**BARBERRY THUNBERGII** (Japanese Barberry)—This comparatively new shrub has sprung into popularity with wonderful rapidity,

and perhaps stands today in public estimation ahead even of the Hydrangea and Spirea Van Houtte. Rather low growing, spreading habit, its branches, when not checked, growing out in all directions giving it a strikingly characteristic appearance peculiarly its own. Small white blossoms in May, developing into long sprays of brilliant purplish red berries which persist during the winter, as shown in cut. Its glossy, light green foliage changes in the fall to the most brilliant combinations of red, green and yellow, surpassing even the Ampelopsis in its color effect. Well adapted for low hedging. 25c. Smaller plants for hedging in lots of 25 and over, \$15.00 per 100.

**PERSIAN YELLOW**

An exceedingly pretty, semi-double yellow rose, very similar to the old fashioned yellow "Scotch" rose so common years ago, and still seen in the rare, fine old gardens whose hollyhocks, paeonias, lavender and dwarf box speak so plainly of generations of care. Trim this class of roses cautiously—they bloom from their last years growth, and bloom but once. The branches are clustered with the buds and blooms that come so early—before any other kinds,—and the general effect is one of great beauty; our long sprays of Persian Yellow are always very welcome. 35c.

**PRINCE CAMILLE DE ROHAN**

This is one of the great roses; it is perhaps the deepest crimson of any rose, and is certainly the finest of the extremely dark roses. Its blooms are large, finely formed, fragrant, and it is a profuse bloomer. 30c.

**KAISARIN AUGUSTA VICTORIA**

A hardy, delicate straw or cream white, hybrid tea rose, uniting the wonderful beauty and free blooming qualities of the tender "tea" class of roses, with the hardiness and vigorous growth of the hybrid perpetuals. It blooms at intervals clear up to heavy frosts, blossoms last well, are fine in both bud and when open, and if selecting a rose second to Frau Karl in the greatest number of strong features, we should select this variety. The engraving of this variety is very much reduced. 50c.

**MOSS ROSES.****BLANCHE MOREAU**

Probably the best White Moss rose. A free bloomer and blooms and bud well covered with the characteristic mossy growth. 25c.

**CRESTED MOSS**

A dark pink rose, by far more heavily mossed than any other variety. This is unquestionably the finest of all the mosses. 30c.

**SALET**

A fine, light pink rose, large and full. 25c.



DEUTZIA CRENATA

**DEUTZIA  
CRENATA**

Blossoms in June, flowers white with delicate pink shading, in racemes 6 inches long. A very strong grower. Foliage a perfect tea green, holding its color during the season. 25c.

**DEUTZIA  
GRACILIS**

A dwarf variety with pure white flowers in great profusion. 25c.

**FRINGE, PURPLE** (Smoke Tree) A large growing shrub, so named from its brown, thread-like bloom which covers the entire tree, appearing at a distance like a cloud or mass of smoke. 35c.

**FRINGE, WHITE** Among the most beautiful of all flowering shrubs for its bloom alone. The entire tree is covered with the most delicate racemes of pure white flowers. 50c.

**HYDRANGEA  
PANICULATA**

(Hardy Hydrangea)—So common and so good as to need no description. Bush form, 25c, tree form, 50c.

**LILAC**

These need no description. We offer purple and white varieties, our selection, at 30c each.

**PRUNUS  
PISSARDII**

A fine purple foliage shrub or small tree, often bearing a small, bright red fruit. 20c.

**PRUNUS  
TRILOBA**

(Flowering Plum)—A very early bloomer having large, double pink blossoms. 50c.

**QUINCE, JAPAN**

Blooming very early, its brilliant red blossoms preceeding the foliage and covering every branch and twig. 25c.

**SNOWBALL,  
COMMON**

This needs no description as its large, greenish white, globular clusters of flowers are familiar to us all. 25c.

**SNOWBALL  
JAPAN**

This is one of the great acquisitions of the last few years. The flowers are a perfectly pure white, borne in rather smaller clusters than the common. Foliage strikingly handsome, and habit of tree much better than the common variety. 50c.

**SPIREAS**

A class of low, compact, easily grown flowering shrubs, vigorous and hardy as a class, with blossom periods extending over a wide range of seasons. We offer the following varieties:

**Anthony Waterer**—Quite dwarf, with red blossoms. 20c.

**Aurea**—Grown for its fine, golden foliage only. 35c.

**Bumalda**—A dwarf Japanese variety, rose color. 25c.

**Callosa Alba**—A fine, dwarf white flowering variety. 25c.

**Callosa Rosea**—A strong, rose colored variety. 25c.

**Van Houtte**—This is easily Queen of all the spiraeas. No one who has ever seen this variety in full bloom can fail to be impressed by its wealth of snowy flowers. About the end of May the bush is one complete mass of blossom equaled in its profusion only by the Fringes. Our plants will have some bloom the same year you plant them. We regard this next in value of all the shrubs, to the Japan Barberry. 20c.

**SYRINGA  
GARLAND**

(Mock Orange)—One of the earliest flowering shrubs with sweet scented, white flowers. 25c.

**SYRINGA  
GOLDEN**

Quite dwarf in habit, rich golden foliage, retaining its color perfectly the entire season. We regard this as by far the finest golden foliage shrub. 35c.

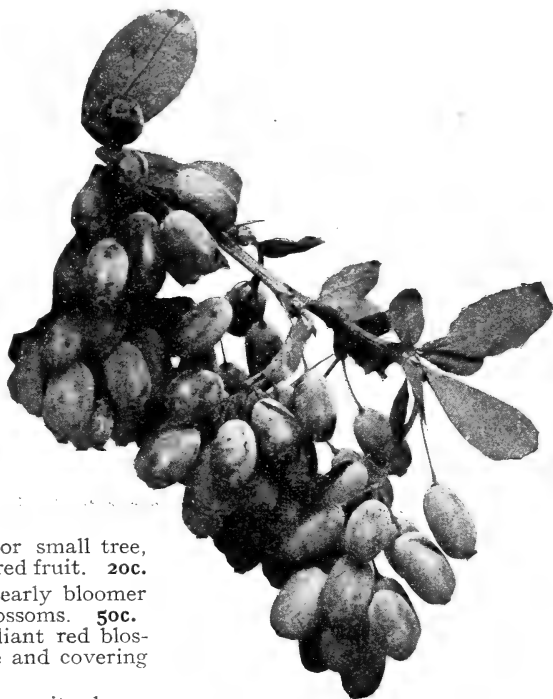
**WEIGELA**

A fine class of spreading shrubs, having rather large, trumpet shaped flowers. Latter part of June. We offer the following:

**Candida**—Pure white, with a long blooming period. 35c.

**Rosea**—Similar to last only with rose colored flowers. 35c.

**Variegated Leaved**—Rather dwarfish, its green foliage edged and marked with silvery white. 25c.



**RED BERRIES OF JAPAN  
BARBERRY**



**JAPAN QUINCE**



PAEONIA

**PAEONIAS**

After all, with exception of the rose, is there any flower that ever grew that in itself is more beautiful than this "old fashioned" flower? The dear old "Piney" takes us back to our Mothers' and Grandmothers' gardens as does no other flower grown today.

Space does not allow us to take up descriptions of particular varieties. We quote by colors, pink, red or white, 25c each.

**HARDY CLIMBING VINES**

**AMERICAN IVY** (Virginia Creeper)—Well adapted for use as a screen on account of its heavy foliage. 25c.

**AMPELOPSIS VEITCHII** (Boston Ivy)—Adapted only to stone, brick or cement construction. Without dispute the handsomest foliaged climber grown. Its fall foliage is rivaled only by that of the Berberry Thunbergii. 25c.

**CLEMATIS** The finest class of flowering, climbing vines. The large flowered varieties are light in foliage as compared with their blossoming capacity, and where a screen and flowers are both desired, they are very fine planted with American Ivy and allowed to over run the Ivy. Their large, spreading, star-like blooms are familiar to all.

**Henryii**—Large flowered, pure white, 50c.

**Jackmanii**—Very large, deep purple. 50c.

**Madam Edward Andre**—Flowers a little smaller than last; deep, rich wine color. 50c.

**Paniculata**—Covered with small white blossoms in late summer. Very strong grower and makes a sufficient screen. The effect of its bloom is similar to that of the Fringes and Van Houtte—it completely covers the plant. 25c.

**HONEYSUCKLES** This familiar old vine does not need description. Few plants have the quality of perfuming the entire surrounding atmosphere equal to the honeysuckle. We offer the following:

**Hall's Japan**—Very fragrant, white flowers, changing to straw color. The best blooming variety of all—blooms all summer. 25c.

**Monthly Fragrant**—Red and yellow, very fragrant, blooms all summer. 35c.

**Scarlet Trumpet**—Long, slender, red trumpet-like flowers, the handsomest of all. 35c.

**TRUMPET VINE** Large, red, trumpet-like flowers, three to four inches long. Makes a fine screen—the rankest grower of all our climbers. 25c.

**WISTARIA,  
CHINESE  
PURPLE**

Has long pendulous clusters of pale violet flowers. Slow in becoming established, but after that a great grower.

Where the plant has room to develop to perfection, we regard the Wistaria as without a peer in the entire list of ornamental shrubs and climbers. Its blooming season is of unusual length. 50c.

**WISTARIA, CHINESE WHITE** Same as last except in color. 50c.

**HEDGE PLANTS.**

	Per 100	Per 1000
Arbor Vitae, 12-18 in . . . . .	\$15.00	
Barberry, Japan, 12-18 in . . . . .	15.00	

A very handsome hedge plant.

California Privet, 18-24 in . . . . .	8.00	\$75.00
Honey Locust, 12-24 in . . . . .	2.00	10.00
Osage Orange, 12-24 in . . . . .	1.00	5.00
Norway Spruce, 12-18 in . . . . .	20.00	



JAPANESE SNOWBALL

**SIZE OF OUR SHRUBBERY.**

**CLIMBERS**—Strong two year old vines.

**UPRIGHT SHRUBS**—Dwarf varieties, about 1 to 2 feet in height. Stronger growing varieties, about 2 to 4 feet, according to their natural habit of growth.



## HARDY AND ORNAMENTAL SHADE TREES.

Sizes of ornamental trees will be such as constitute first-class trees of the various varieties, running from 3 to 5 ft. on such as Crab and Thorns, to 7 to 10 ft. on such trees as Maples and Poplars.

Birch, Cut Leaf	\$.50	Beech, Purple Leaf	\$1.00
*Crab, Bechtel's Flowering	.50	*Catalpa, Speciosa	.50
*Elm, American	.75	Catalpa, Bungei, (Dwarf)	1.00
Linden, American (Basswood)	1.00	Elm, Camperdown, Weeping	1.00
Magnolia, Acuminata	.75	Maple, Ash Leaf	.50
Maple, Norway	1.00	*Maple, Silver Leaf	.75
*Maple, Wier's Cut Leaf	.75	Maple, Sugar (Rock)	1.00
Maple, Sycamore	1.00	Mountain Ash, American	.50
*Mountain Ash, Oak Leaf	.50	Mountain Ash, Weeping	.75
Mulberry, New American	1.00	*Mulberry, Russian	.50
*Poplar, Carolina	.25	Poplar, Lombardy	.50
Thorn, Double White	.50	Thorn, Paul's Scarlet	1.50
Tulip Tree	.75	*Willow, Kilmarnock, Weeping	.75

\*Varieties among the most satisfactory, hardy, and very popular everywhere. We recommend them for all ordinary lawn and shade purposes.

We want to call particular attention to three trees in above list which are all very strong growers, easy to transplant successfully, and all beautiful—Carolina Poplar, Russian Mulberry and Catalpa Speciosa—the last also having a profusion of wonderfully handsome flowers.

As a small growing, flowering tree, the Bechtel's Crab is without equal; its bloom is simply a double apple blossom, four to six times the ordinary size.

### EVERGREEN TREES.

Most varieties about 2 ft., or 2 to 3 ft.

Arbor Vitae, American	\$.50
Arbor Vitae, Pyramidalis	.50
Arbor Vitae, Siberian	.75
Fir, Concolor	.75
Fir, Balsam	.50
Pine, White	.50
Pine, Austrian	.50
Pine, Scotch	.75
Spruce, Koster's Blue	2.50
Spruce, Norway	.50
Spruce, Colorado Blue	2.00

### FOREST TREE SEEDLINGS.

Must be ordered early as they are grown for us in the west.

Did you ever stop to think of the profit there is in growing Catalpa or Black Locust for posts? If you have an old wood lot, stick them in there, though it can be made to pay planting them on open, valuable farm lands also.

	Per 100	Per 1000
Catalpa, Speciosa, 12-18 in.	\$2.00	\$12.00
Black Locust, 12-18 in.	2.00	12.00
Russian Mulberry, 12-18 in.	3.00	18.00
Black Walnut, 12-18 in.	5.00	30.00

## Price List of Chemicals, all F. O. B. Shipping Points.

Prices on Every Item in the Following List are for Remittance with Order either in P. O. or Express Money Order, or in New York Draft.

**ARSENATE OF LEAD**—Insecticide for eating or chewing insects; the best insecticide for Codling Moth on apples and pears; no matter how strong it is used it cannot injure the foliage, while the use of Paris Green, London Purple or White Arsenic compound is always attended with more or less danger to the foliage. A great advantage is that it adheres to the foliage longer than any of the other poisons. Is especially fine for use on potatoes. PRICES per pound in unbroken packages, as follows:

500 lb. barrels, 8c; 100 lb. kegs, 9c; 50 lb. kegs, 10c.

The great reduction in the price of Arsenate of Lead is bringing it to the front as the leading insecticide. Use 3 to 5 lbs. to 50 gals. water or Bordeaux mixture. For fancy fruit would advise at least 4 lbs. For potatoes use 5 to 6 lbs. to 50 gals. of Bordeaux.

**COPPER SULPHATE**—For making the Bordeaux mixture.

By the barrel \$5.00 per 100 lbs., F. O. B. Geneva, N. Y. In less barrel lots \$6.00 per 100 lbs.

Barrels run about 525 lbs. Any variation from that weight will be corrected when shipped.

(The price of copper Sulphate is liable to fluctuations and all orders are taken subject to any advance in price after issuing this list.)

**SULPHUR, Fine Flour**, for preparation of Lime-Sulphur Solution. In unbroken barrels, 250 lbs. each, \$.625 per bbl. f. o. b. Newark, N. J.

In ten barrel lots delivered at your station in New York, Pennsylvania, Delaware, Maryland and the New England States, freight paid.

**LIME-SULPHUR SOLUTION**—In 50 gallon barrels, making 500 to 600 gallons of mixture when diluted: \$10.00 per barrel, f. o. b. Burt or Geneva, N. Y.

**LIME**—Fresh burned, lump; car lots only, 20 to 25 tons; \$3.00 per ton. Freight rate on these goods from Kiln to Geneva is \$1.60 per ton; the rate to most N. Y. state points would probably be under \$2.00 per ton. Settlement is on R. R. shipping weights.

## FERTILIZER CHEMICALS.

MIX YOUR OWN FERTILIZER AND KNOW WHAT YOU ARE GETTING.

Nitrate of Soda	18 1/2%	200 lbs.	\$51.00	\$5.10
Dried Blood	12%	125 "	41.60	2.60
Ground Tankage	7 1/2%	125 "	26.00	1.62 1/2
Bone Meal	3 1/2%	125 "	25.00	1.56 1/4
Pure Raw Bone	4%	125 "	27.00	1.68 3/4
Acid Phosphate	water soluble	125 "	13.00	.81 1/4
Floats	25%	150 "	12.00	.90
Kanit		12%	200 "	13.00
Sulphate of Potash		48%	225 "	48.00
Muriate of Potash		50%	225 "	41.50
Agricultural Lime, 98% carbonate, ground		100 "	7.50	.37 1/2

PRICES F. O. B. Buffalo, N. Y., in any quantity desired from one bag up, in unbroken bags.

According to the report of the State Experiment Station on analyses of samples of chemicals sold by us during 1909, the following chemicals showed that they contained plant food in excess of the guarantee, worth in cash the following amounts per ton: Nitrate of Soda, \$2.76; Dried Blood, \$4.89; Tankage, 87c; Muriate of Potash, \$3.32. Sulphate of Potash tested exactly with guarantee. Acid Phosphate was deficient in water soluble phosphoric acid, 29c per ton; but based on total phosphoric acid, had an excess of 33c per ton. As above chemicals constitute over 98% of our total sales of all kinds, we have not computed the other items. Where more than one analysis was given we have taken the average of all, in compiling above figures. WE ARE SELLING GOODS MADE AND IMPORTED BY THE SAME PARTIES THIS YEAR, which is sufficient guarantee that you will get goods as represented.

All percentages in above list of chemicals are guaranteed except the phosphoric acid in Tankage; experience has shown it to run about 12% however, of which about 6% is immediately available, and all is ultimately available.

The questions "How shall I mix this stuff" and "How much of the different chemicals do I need" occur to us all in mixing our own fertilizers, and must be answered; the first is easy—"the barn floor, a scoop shovel, and shovel it over till well mixed." The second question requires more consideration, but its answer is not a difficult one to understand.

Suppose you want to give your wheat 200 lbs. per acre of a 2-9-5 fertilizer, and wish to mix it from your chemicals. This formula means that in a ton of mixed fertilizer analyzing 2-9-5, that 2% of the ton, or 40 lbs. is Ammonia, containing the nitrogen element of plant food; that 9% of the ton, or 180 lbs. is phosphoric acid, and 5% of the ton or 100 lbs. is potash. It comes then right down to this; in your ton you have

40 lbs. of ammonia,  
180 lbs. phosphoric acid,  
100 lbs. potash,

320 lbs. total plant food,

1680 lbs. of other elements than plant food, of comparatively little value.

Now, forget all about the fact that you have been buying your fertilizer by the "ton," that you have been estimating your plant food on the basis of "tons," or percentages, or anything but **just pounds of plant food**. In buying a ton of 2-9-5, what you want and what you are paying for, is just that **320 lbs. of plant food and not another ounce beyond that**. A ton of that 2-9-5 would cost about \$27.00 or \$28.00. Now, if we can get that same 320 lbs. of plant food in a little lighter weight than a ton, and if we can get it at less than \$27.00, won't it pay to buy our chemicals and mix our own fertilizers? Let us get that 320 pounds of plant food, using a little Nitrate of Soda for a quick acting nitrogen constituent, say for about a quarter of our whole amount of ammonia; for the rest of the ammonia we will take Tankage, which also gives us a part of our phosphoric acid; for the rest of the phosphoric acid we will use Acid Phosphate, with the Muriate of Potash for our potash element. In all this remember, **we are not after a "ton" of fertilizer—WE ARE ONLY AFTER THE 320 LBS. OF PLANT FOOD**, in the proportion stated before—namely:

40 lbs. ammonia.....180 lbs. phosphoric acid.....100 lbs. potash  
60 lbs. Nitrate of Soda containing 18 1/2% ammonia gives us about.....11 lbs. ammonia  
400 lbs. Tankage containing 7 1/2% ammonia gives us about.....30 lbs. "

giving us about the desired quantity of .....41 lbs. "

Now, this same Tankage gives us about 12% of phosphoric acid, but as only about 6% is water soluble, we will estimate it as giving us the 6% only, making.....24 lbs. phosphoric acid  
1140 lbs. Acid Phosphate, containing 14% of phosphoric acid, gives.....161 lbs. "

giving us a total of about .....185 lbs. "  
200 lbs. Muriate of Potash, containing 50% potash, gives us.....100 lbs. potash

1800 lbs. in weight, therefore, contains the full amount of plant food that we started out to obtain.

Now, **what have we saved?** We have saved freight on 200 lbs. and saved handling that added weight, six or eight times; the cost of this is \$18.29 plus freight from Buffalo, as against **about \$27. delivered**; If you put on 180 lbs. to the acre you will be getting exactly the same plant food that is contained in 200 lbs. of the 2-9-5 mixed goods.



In a low grade of goods, 1-9-2, the contrast in weight is more striking; the 20 lbs. ammonia, 180 lbs. phosphoric acid and 40 lbs. potash can be secured by using 30 lbs. Nitrate of Soda, 200 lbs. Tankage, 1200 lbs. Acid Phosphate and 80 lbs. of Muriate, making a total of 1510 lbs. instead of a ton, and costing about \$12.83 in Buffalo as against about \$22.00 delivered.

**NITRATE OF SODA ON TIMOTHY MEADOW**—If put on early, not over 200 lbs. to the acre, our experience is that it has increased the yield to nearly or quite double. **This is no mere theory—it is a fact** that we have demonstrated on our own meadow, and it has never failed to give a very large increased yield. Last year we estimated that we **got back the cost of the Nitrate used, three times over.**

The whole matter of the use of commercial fertilizers seems to us to resolve itself to about this; if you are so situated that you can have a sufficient supply of barnyard manure, or where you can turn under "cover crops" liberally, or, better still, **where you can meet both those conditions**, we advise only a very limited use of chemical fertilizer, and then as a rule, only when seeding and you want something to give the crop a quick start. Of course this does not apply to many special cases where the most intensive methods are used, but for most of us, the method of making manure and cover crops is without doubt the best in the long run.

**BUT**—when we do use the chemical fertilizers, let us by all means **get the chemicals, mix them ourselves, and save at the very lowest estimate a full 25 per cent. in their cost.**

If you want aid in computing your mixtures, write us and we will be glad to aid you if possible.

## OF HIGHEST IMPORTANCE TO BUYERS OF CHEMICALS.

**Order early;** Our experience shows that chemical orders are filled as to promptness, about as follows:

**SULPHATE OF COPPER**—Immediately; shipment guaranteed day following receipt of order.

**ARSENATE OF LEAD**—Immediately on receipt of our letter transmitting order.

**FLOUR OF SULPHUR**—Very promptly; only in one instance have we been delayed.

**LIME-SULPHUR SOLUTION**—As a rule **very promptly**, but if left till late there is risk in having shipments delayed; better allow at least three weeks.

**LIME, in car lots**—The most uncertain of all; possibly the same day order is received, possibly 6 weeks later. On request we will ascertain approximate date of filling an order.

**FERTILIZER CHEMICALS**—Certain as the last is uncertain—**CERTAIN** to be prompt if ordered early, equally certain to be somewhat delayed if ordered after the rush season has begun.

## BARGAINS—CASH WITH ORDER

**CURRENTS**—just under the best grade.

In bundles of 25, unbroken.

\$5.00 per 100.

525 Cherry

200 White Imperial

450 Fay

225 Wilder

**CURRENTS**—good number two plants

In bundles of 50, unbroken

\$3.00 per 100.

600 Cherry

810 Fay

This is an exceptional, great big bargain.

## APPLE TREES

Varieties in bundles of 10 trees unbroken.

These are nice, clean little trees, about 3½ to 4 ft. in height.

**\$15.00 PER 100**

125 Baldwin

100 Duchess

38 Fameuse

20 King

25 Missing Link

30 R. I. Greening

120 Stark

25 Stayman Winesap

9 Sutton

7 Tolman Sweet

125 Wealthy

10 Winter Banana

10 York Imperial

43 Yellow Transparent

**\$20.00 PER 100**

90 McIntosh

58 Northern Spy

## ROSES

500 rose bushes, assorted classes and varieties, while they last, at **ONLY \$1.25 per doz.** Our selection of varieties.

## CAROLINA POPLAR

100 trees, 7 ft., 6 trees for \$1.00.

## APPLE TREES FOR TOP GRAFTING

5 to 8 feet high.

500 very large trees especially adapted for top grafting where quick results are desired. Our selection of varieties. These trees are now practically bearing size, perfectly healthy and vigorous, and should bring grafts into bearing in two or three years.

Write for prices, stating number wanted.

## CHERRY TREES

In unbroken bundles of 10 trees.

2½ to 3 feet, \$12.00 per 100.

300 Early Richmond.

800 Montmorency.

## PEAR TREES—3-4 ft.

An acre of pears, 16 x 16 ft., only \$20.00.

Or, \$15.00 per 100 in smaller quantities.

Varieties in unbroken bundles of 10 trees.

Only the following are offered:

650 Bartlett

60 Beurre d'Anjou


225 Clapp's Favorite

87 Flemish Beauty

30 Kieffer

150 Seckel

29 Sheldon



# MCKAY'S DWARF APPLES

DWARF  
DUCHESS

DWARF  
MCINTOSH

DWARF  
WEALTHY

DWARF  
KING

DWARF  
GREENING

DWARF  
BALDWIN

DWARF  
NORTHERN SPY

Prices 25c each \$2.50 per doz.  
Above Collection of Seven, \$1.25